

# TriTech

LUBRICANTS  
AUSTRALASIA

*Taking you Places*

AUTOMOTIVE

INDUSTRIAL

COMMERCIAL

AGRICULTURAL

EARTHMOVING

TRUCK & BUS

CONSTRUCTION

OUTDOOR & MOTORCYCLE



## PRODUCT CATALOGUE

### 2023





## INTRODUCTION TO TRITECH LUBRICANTS

TriTech Lubricants is an Australian owned and operated company established in 2002. Built on a foundation of operating primarily as a lubricant manufacturing, packaging and logistics company backed by a high level of service and technical support.

Strong support for the TriTech Lubricants products led to the company establishing a Retail product range in 2010 aimed at providing end users with that same unsurpassed product service and support. In 2014, to complement the rapidly expanding retail range, TriTech released TTR Racing Oil. The TTR range is manufactured from the highest quality raw materials and designed for maximum protection in vehicles operating under high stress. 2016 saw TriTech Lubricants expand its retail and distribution centres to a purpose-built warehouse in Tullamarine to help accommodate the rapid growth achieved within the company.

In the first quarter of 2020 TriTech took the strategic step of moving into our newly commissioned, custom designed state of the art manufacturing plant in Dandenong South. Our operations are now fully centralised, bringing numerous benefits to the company which flow through to our customers by way of superior service and delivery performance, our new wholesale shop OilWorld, along with a bolstered technical department, improved manufacturing efficiencies and greater capacities to all aspects of supply.

TriTech Lubricants has rapidly cemented themselves as market leaders within the industry. This affords our customers the knowledge that TriTech Lubricants can offer the uncompromised product quality and support. TriTech Lubricants is committed to technical and quality excellence, ensuring that all our products are a strict ISO 9001-2015 quality endorsed manufacturing system.

TriTech Lubricants products are blended using OEM approved formulations and developed to meet and exceed industry specifications and comply with SAE, API, ACEA and ISO guidelines. This is backed by our product guarantee.

With business interests throughout Australia, New Zealand, The Pacific Islands and the Asia region including Singapore, Cambodia and China, TriTech Lubricants is indeed a truly global company. The chances are you are probably using our oil already!

The Company's growth in Australia and abroad can be attributed to the dedication of our loyal employees and the commitment to product quality and customer service that all at TriTech share.

## QUALITY GUARANTEE

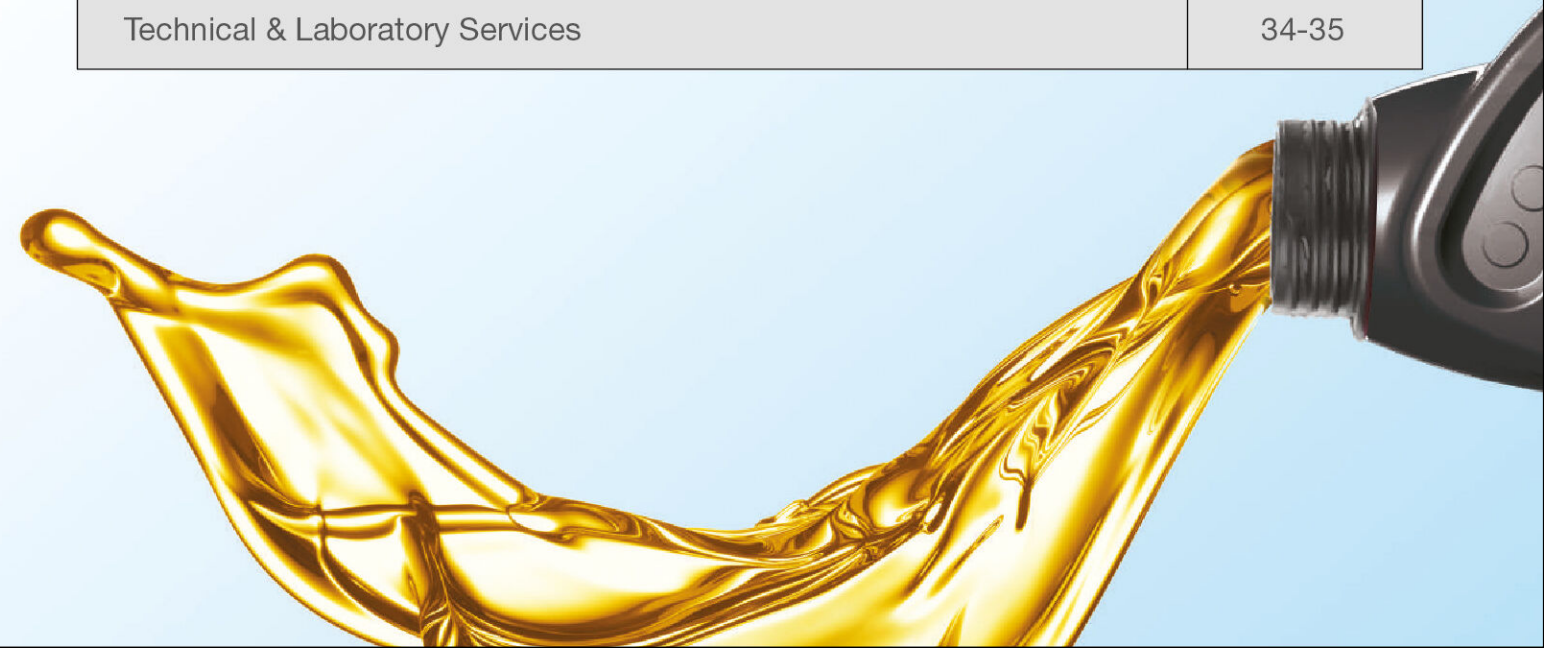
TriTech Lubricants prides themselves on our extensive quality program, aimed at ensuring that all our customers receive only the best quality product. TriTech Lubricants is an ISO 9001-2015 quality endorsed company. Our products are rigorously tested to comply with international guidelines such as API, SAE, ACEA and ISO and are backed by our product guarantee.

TriTech Lubricants products are manufactured using the finest quality base stocks and the most technically advanced additives sourced from all over the world. TriTech Lubricants is committed to Service and Quality and will continue to improve our products and processes to ensure all valued clients are constantly receiving the highest quality product available.



## PRODUCT RANGE

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OEM APPROVALS

CES 20086	VDS - 4.5	IV RLD - 3	EO-S 4.5
DDC 93K222	API CK-4	504 00/507 00	MB 229.52

**TECH CENTRE**

**Phone: 1300 46 33 33**



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# PASSENGER CAR MOTOR OILS



## SYNERGY EURO 5W-30 504/507

Code: 9287

A top tier mid SAPS engine oil especially developed for Volkswagen Group engines. It is designed to be used in both Diesel and Petrol engines and is approved by Volkswagen A.G. for its latest petrol and diesel engines. Suitable where DPFs are in use and engineered to provide best in class engine protection.

### Specification / Technical Data

**VW:** 504 00 / 507 00 (OEM approved), **ACEA:** C3-2016, **API:** SP, **BMW:** LL04, **PORSCHE:** C30, **MB:** 229.52, 229.31, 229.51  
**Available in:** 1L, 5L, 10L, 20L, 205L, 1000L

**VW OEM  
Approved**



## SYNERGY EURO 5W-30 C3

Code: 9281

SYNERGY EURO 5W30 C3 is designed for European engines requiring superior performance and those which comply with Euro 1, Euro 2, Euro 3 and Euro 4 exhaust emission legislation. SYNERGY EURO 5W30 C3 is a full synthetic formulation and is suitable for use where particulate filters are used.

### Specification / Technical Data

**API:** SP, **ACEA:** C2, C3, **BMW:** LL-04, **OPEL:** OV 0401541, **MERCEDES BENZ:** 229.31/229.51/229.52 (MB Approval)  
**Available in:** 1L, 5L, 20L, 60L, 205L, 1000L

**MB Approval  
229.52**



## SYNERGY EURO 5W-40 C3

Code: 9282

SYNERGY EURO 5W40 C3 is designed for European engines requiring SHPD (Super High Performance Diesel) level of performance and those which comply with Euro 1, Euro 2, Euro 3 and Euro 4 exhaust emission legislation. SYNERGY EURO 5W40 C3 is a full synthetic formulation and is suitable for use where particulate filters are used.

### Specification / Technical Data

**API:** SN/CF, **ACEA:** C3, **BMW:** LL-04, **GM:** DEXOS 2, **MERCEDES BENZ:** 229.31/229.51, **RENAULT:** RN0700/0710, **VW:** 502.00, 505.00, 505.01  
**Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## SYNERGY EURO 5W-30 C4

Code: 9275

5W30 C4-10 has outstanding low temperature viscometrics for reduced wear at start up and is a dedicated European formulation with Low SAPS (Sulfated Ash, Phosphorus and Sulfur) It incorporates the most advanced development in lubrication chemistry and complies with the demanding requirements of Euro IV and Euro V exhaust emission legislation. Ideally designed for European engines (especially for late model Renault diesel passenger cars).

### Specification / Technical Data

**API:** C4-16, **RENAULT:** RN 0720  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## SYNERGY EURO 5W-30 C1 DL-1

Code: 9274

Incorporating the most advanced development in lubrication chemistry and complies with the demanding requirements of European engines requiring ACEA C1 specifications. Suitable for use in vehicles with diesel particulate filters (DPF).

### Specification / Technical Data

**ACEA:** C1, **JASO:** DL-1, **FORD:** WSS-M2C934B, **MAZDA:** (DPF), **JAGUAR/LAND ROVER:** ST JLR.03.5005  
**Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



# PASSENGER CAR MOTOR OILS



## SYNERGY EURO FE 5W-30 A5/B5

Code: 9292

SYNERGY 5W30 A5/B5 is a full synthetic, high performance motor oil incorporating the most advanced development in lubrication chemistry. It allows for continuous protection for all driving conditions, styles and temperatures. A cleaner oil developed to reduce engine wear at start up and reduce fuel consumption.

### Specification / Technical Data

**API:** SN, A5/B5, **FORD:** WSS-M2C913-D, **JAGUAR LAND ROVER:** JLR 03.5003  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## SYNERGY EURO 0W-30 C2

Code: 9152

A new generation Low SAPS, fully synthetic energy conserving motor oil which provides the highest level of protection from combustion deposits, heat induced oil oxidation and sludge deposits. Fully compatible with diesel particulate filters.

### Specification / Technical Data

**API:** SN, **ACEA:** C2, **ACEA:** A5/B5 (Outside Warranty), **FORD:** WSS-M2C950-A, **PEUGEOT PSA:** B71 2290, **PEUGEOT PSA:** B71 2312, **FIAT:** 9.55535-DS-1, **FIAT:** 9.55535-GS1, **VW:** 506.01 (Suitable for use), **JAGUAR LAND ROVER:** ST JLR 03.5007  
**Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## SYNERGY 0W-20 SP

Code: 9168

Full synthetic fuel saving motor oil specially formulated with advanced synthetic base stocks and premium additives which provide the highest level of protection from combustion deposits, heat induced oil oxidation and sludge deposits. It is suitable for new generation petrol engines. Protects against LSPI.

### Specification / Technical Data

**API:** SP, **ILSAC:** GF-6A, **ACEA:** A5/B5, **FORD:** WSS-M2C-962A1/945A, **MS:** 6395  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## SYNERGY 0W-40 SP

Code: 9260

SYNERGY 0W40 is a state of the art fully synthetic, quick flowing engine oil which provides the highest level of protection from combustion deposits, heat induced oil oxidation and sludge deposits. Provides outstanding wear protection in all temperature extremes.

### Specification / Technical Data

**API:** SP, **BMW:** LL-01, **PORSCHE:** A40, **VW:** 502.00, 505.00, **MB:** 229.5  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## SYNERGY DX-1 5W-30 SP

Code: 9183

SYNERGY DX-1 5W30 is a full synthetic motor oil developed by GM for late model GM vehicles with petrol engines. It is also suitable for use in a wide variety of other makes and models. Formulated with advanced synthetic base stocks and premium additives providing the highest level of LSPI protection especially for today's modern high output small engines.

### Specification / Technical Data

**GM DEXOS 1** (2nd Generation), **ILSAC:** GF-6A, GF-5, **API:** SP, **FORD:** M2C961-A1, M2C946-A, **CHRYSLER:** MS6395  
**Available in:** 5L, 20L, 60L, 205L, 1000L





# PASSENGER CAR MOTOR OILS



## SYNERGY 5W-30 SP

Code: 9180

Full synthetic petrol/diesel energy conserving motor oil which provides the highest level of protection from combustion deposits, heat induced oil oxidation and sludge deposits. SYNERGY 5W30 is a multi viscosity, low pour point motor oil ensuring quick lubrication to all moving parts during cold weather starts.

### Specification / Technical Data

**API:** SP, **ACEA:** A3/B4, **FORD:** WSS-M2C-946A, **BMW:** LL-01, **MERCEDES BENZ:** 229.5, **VW:** 502.00/505.00  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## SYNERGY 5W-40 SP

Code: 9160

Full synthetic petrol/diesel motor oil formulated with advanced synthetic base stocks, premium additive and a broad viscosity rating providing the highest level of protection in the most demanding of conditions and allowing for maximum drain intervals.

### Specification / Technical Data

**API:** SP, **BMW:** LL-01, **MERCEDES BENZ:** 229.5, **VW:** 502.00/505.00  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## SYNTECH 10W-30 SP

Code: 9138

SYNTECH SEMI-SYN 10W-30 SP is a premium semi synthetic engine oil developed for today's modern passenger cars. Formulated and blended with the latest additive technology to achieve a superior level of engine protection whilst providing fuel savings. Protects against LSPI.

### Specification / Technical Data

**API:** SP/Resource Conserving, **ILSAC:** GF-6A, **CHRYSLER:** MS6395  
**Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## SYNTECH 10W-40 SN/CF

Code: 9145

A multifunctional semi synthetic petrol/diesel oil representing a new generation motor oil which provides better protection from piston deposits, less oil thickening and sludge deposits, and exceptional anti-wear protection under high speed high stress motoring conditions.

### Specification / Technical Data

**API:** SN/CF, **ACEA:** A3/B4, **MERCEDES BENZ:** 229.1, **FORD:** Service Fill, **CHRYSLER:** Service Fill  
**Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## ULTRATECH 10W-30 SN/CF

Code: 1204

Latest petrol oil designed for cars and light trucks, especially those with high revving engines and meets the latest SN requirements. Highlights of this oil include the highest protection against sludge, deposits, valve train wear and catalytic converter fouling due to phosphorous volatility.

### Specification / Technical Data

**API:** SN, **CHRYSLER:** Service Fill, **GM:** Legacy GM Service Fill, **FORD:** Service Fill  
**Available in:** 5L, 20L, 60L, 205L, 1000L



# PASSENGER CAR MOTOR OILS



## ULTRATECH 15W-40 SN/CF

Code: 1504

Latest petrol oil designed for cars and light trucks, especially those with high revving engines and meets the latest SN requirements. Highlights of this oil include the highest protection against sludge, deposits, valve train wear and catalytic converter fouling due to phosphorous volatility.

### Specification / Technical Data

**API:** SN/CF, **CHRYSLER:** Service Fill, **GM:** Legacy GM Service Fill, **FORD:** Service Fill  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## ULTRATECH 20W-50 SN/CF

Code: 1004

Latest petrol oil designed for cars and light trucks, especially those with high revving engines and meets the latest SN requirements. Highlights of this oil include the highest protection against sludge, deposits, valve train wear and catalytic converter fouling due to phosphorous volatility.

### Specification / Technical Data

**API:** SN/CF  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## ULTRATECH 25W-70 SJ/CF-4

Code: 1650

A technically advanced high viscosity oil made from a unique blend of additives to produce exceptional viscosity stability and is ideally suited to older vehicles and worn engines.

### Specification / Technical Data

**API:** SJ/CF-4  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## SYNERGY EURO 0W20 C5

Code: 9264

A premium fully synthetic motor oil for the latest European engines fitted with after exhaust treatment systems like DPFs and TWCs. It provides the highest level of protection and engine durability. SYNERGY EURO 0W20 C5 is mid-SAPS technology oil for the latest fuel-efficient engines designed to run on lower viscosity oils.

### Specification / Technical Data

**API:** ACEA C5, **API:** SN, **VOLVO VCC:** RBS0-2AE  
**Available in:** 5L, 10L, 20L, 205L, 1000La



## SYNERGY EURO 5W30 12-FE

Code: 9188

A new generation, mid-SAPS, fully synthetic energy conserving motor oil which provides the highest level of protection from combustion deposits, heat induced oil oxidation and sludge deposits. Ideal for BMW engines requiring BMW LL-12 FE performance level. Also suitable to high performance petrol and small diesel engines with DPFs.

### Specification / Technical Data

**API:** SN Plus, **ACEA:** C2, **BMW:** LL-12 FE  
**Available in:** 5L, 10L, 20L, 205L, 1000L





# COMMERCIAL & HEAVY DUTY ENGINE OILS



## SYNERGY EURO 10W-40 E6 LOW SAPS

Code: 9233

Fully synthetic ultra high performance heavy duty diesel engine oil. It meets and complies with the demanding requirements of Euro 6 exhaust emission legislation. Suitable for use in vehicles with diesel particulate filters (DPF).

### Specification / Technical Data

**ACEA:** E6 / E7 / E9, **ACEA:** E4 (suitable for use), **API:** CK-4, **MAN:** MAN 3275 / 3575 / 3477 / 3271-1, **MERCEDES BENZ:** MB 228.51, **RENAULT:** TRUCK RLD-3 / 4, **MTU:** 3.1, **MACK:** EO-S4.5, **VOLVO:** VDS 4.5, **SCANIA:** LOW ASH, LDF / LDF-2, **DAF**  
Available in: 5L, 20L, 60L, 205L, 1000L



## SYNERGY EURO 5W-30 E6 LOW SAPS

Code: 9243

SYNERGY EURO E6 is a fully synthetic ultra high performance heavy duty diesel engine oil. It meets and complies with the demanding requirements of Euro 6 exhaust emission legislation. SYNERGY EURO E6 is ideally designed for European engines requiring SHPD level of performance and those which comply with Euro 1, Euro 2, Euro 3, Euro 4, Euro 5 and Euro 6 exhaust emission legislation.

### Specification / Technical Data

**ACEA:** E6 / E7 / E9, **ACEA:** E4 (suitable for use), **API:** CK-4, **MAN:** MAN 3275 / 3575 / 3677 / 3271-1, **MERCEDES BENZ:** MB 228.51, **RENAULT:** TRUCK RLD-3 / 4, **MTU:** 3.1, **MACK:** EO-S4.5, **VOLVO:** VDS 4.5, **SCANIA:** LOW ASH, LDF / LDF-2, **DAF**  
Available in: 5L, 20L, 60L, 205L, 1000L



## SUPERTECH 15W40 CK-4

Code: 2004

SUPERTECH 15W40 CK-4 is a Low SAPS, new generation, premium heavy duty diesel oil that has been formulated specifically to meet the latest Euro VI requirements of Australian and imported designed low emission engines. Designed and formulated to provide protection for highly rated diesel engines running in severe service conditions. It affords increased fuel economy and long drain intervals.

### Specification / Technical Data

**API:** CK-4/CJ-4/CI-4+/CI-4, **CAT:** ECF-3, **ACEA:** E9-12, E7-12, **MERCEDES BENZ:** MB 228.31, **MAN:** 3275 & 3575, **VOLVO:** VDS-4.5, **DETROIT DIESEL:** 93K222, **CUMMINS:** 20086, **RENAULT:** VI RLD-3, **MTU:** 2.1, **MACK:** EO-S 4.5, **MACK:** EO-O PREMIUM PLUS  
Available in: 1L, 5L, 20L, 60L, 205L, 1000L



## TOPTECH 15W-40 CJ-4/SN

Code: 2003

Heavy duty, Low Saps premium diesel lubricant and has been formulated specifically to meet the requirements of Australian and imported that low emission engines, including those engines which incorporate exhaust gas recycling (EGR) to provide fuel efficiency, high wear protection and long drain capability. Specially formulated to protect exhaust after DPF's

### Specification / Technical Data

**API:** CJ-4/CI-4+/SN, **MACK:** EO-O PREMIUM PLUS, **ACEA:** E7, E9, **CAT:** ECF-3, **CUMMINS:** CES 20081, **VOLVO:** VDS-4, **DETROIT:** 93K218, **JASO:** DH-2, **RENAULT:** RLD-3, **GLOBAL:** DHD-1  
Available in: 5L, 20L, 60L, 205L, 1000L



## GLOBALTECH 15W-40 CI-4/SL

Code: 2002

A low ash, superior performance heavy duty engine oil designed for use in most four stroke diesel engines, including those fitted with emission and electronic control systems in order to meet the latest standards and in particular for long haul extended drain cycle operations.

### Specification / Technical Data

**API:** CI-4/SL, **MACK:** EO-M+, **ACEA:** E7, **CAT:** ECF-2, **CUMMINS:** CES 20078, **VOLVO:** VDS-3, **MAN:** 3275, **MERCEDES BENZ:** 228.3, **MTU:** Type II  
Available in: 5L, 20L, 60L, 205L, 1000L



# COMMERCIAL & HEAVY DUTY ENGINE OILS



## ULTRATECH 15W-40 CH-4/SJ

Code: 2001

A mid ash, heavy duty multigrade diesel engine oil designed for use in high speed, four stroke diesel engines meeting the requirements of American, European and Japanese engine manufacturers. Formulated for heavy duty service in engines specifically designed for on- highway conditions as well as being suitable for a wide range of heavy-duty off-highway applications.

### Specification / Technical Data

**API:** CH-4/SJ, **MACK:** EO-M, **ACEA:** E3, **CAT:** ECF-1-a, **CUMMINS:** CES 20076, **VOLVO:** VDS-2, **MAN:** 3275, **MERCEDES BENZ:** 228.3, **MTU:** Type I, **JASO:** DH-1  
Available in: 5L, 20L, 60L, 205L, 1000L



## MONOTECH SAE: 30, 40, 50

Code: 2230, 2240, 2250

Mono grade automotive engine oils designed for a wide range of petrol and diesel engines. Primarily recommended for use as a single oil in mixed fleets containing both light and heavy duty, four stroke diesel and petrol engines, both naturally aspirated and turbocharged or where a mono grade oil is recommended.

### Specification / Technical Data

**API:** CF-4, CF-2, CF/SG, **CAT:** TO-2, **ALLISON:** C3/C4, **MERCEDES BENZ:** MB 228.0,  
Available in: 1L, 5L, 20L, 60L, 205L, 1000L



# AUTOMATIC TRANSMISSION OILS



## ATF SYN LV

Code: 9380

ATF SYN LV is a new generation, low viscosity, full synthetic fluid developed for transmissions requiring a lighter viscosity fluid compared to SYN MULTITRANS. It is designed to meet the current low viscosity requirements of many OEM vehicle manufacturers. The ideal transmission fluid for Ford Mercon LV and GM Dexron VI and many 6, 7, 8, 9 speed Euro and North American transmissions.

### Specification / Technical Data

**AISIN WARNER:** AW-1, **AISIN:** 8 SPEED, **AUDI:** G 055 005, G 055 162, **BMW:** 83 22 0 142 516, 83 22 2 152 426, **HONDA:** DW-1, **FORD MERCON:** LV, **GM DEXRON:** -VI, **HYUNDAI/KIA:** SP-IV, SPH-IV, SP-IV RR, **HYUNDAI:** NWS-9638, **JASO:** 1-A-LV, JWS 3324, **NISSAN:** MATIC-S, MATIC-W, **MITSUBISHI:** SP-IV, ATF J2, **TOYOTA:** WS (JWS 3324), **VW:** G 055 540, G 055 005, G055 162, ZF 6, 8, 9 SPEED, **MERCEDES BENZ:** MB: 236.12, 236.14, 236.15, 236.41, MB 7 SPEED, MB 9 SPEED, **VOLVO:** 6 SPEED MY (2011 - 2013), **MAZDA:** ATF FZ  
Available in: 1L, 5L, 20L, 60L, 205L, 1000L



## ATF SYN MULTITRANS

Code: 9350

A new generation multipurpose, full synthetic Automatic Transmission Fluid developed to cover virtually all ATF specifications. With the exception of CVT transmissions and Ford "Type F" transmissions, SYN MULTI-TRANS is truly a one stop Automatic Transmission Fluid. Designed to meet Japanese, American and European transmissions, SYN MULTI-TRANS is the perfect choice for the consumer who does not want to carry multiple drums of product.

### Specification / Technical Data

**FORD:** FNR5, **MERCON:** MERCON V, **DEX:** -111H, I11F, I11G, -VI, **AUDI:** G 052 162, G 052 990, G 055 025, **BMW:** 83 22 0 142 516, 83 22 2 152 426, **HYUNDAI/KIA:** SP-II, SP-III, JWS 3314, JWS 3317, **MAZDA:** ATF-M III, ATF-MV, **MITSUBISHI:** SP-II, SP-111, ATF J2, **MERCEDES BENZ:** 236.1, 236.2, 236.3, 236.5, **NISSAN:** 402, MATIC-D, J, K, -S, **TOYOTA:** T, T-II, T-III, T-IV, WS-(JWS 3324), **VW:** G 052 162, G 052 990, G 055 005, G 055 025, G 055 162, G060 162, **ZF:** TE-ML 03D, 04D, 05L, 09, 11B, 14A, 16L, 17C  
Available in: 1L, 5L, 20L, 60L, 205L, 1000L





# AUTOMATIC TRANSMISSION OILS



## ATF UNIVERSAL

Code: 3350

ATF UNIVERSAL utilises premium highly stable mineral and synthetic base oil and new generation automatic transmission fluid additive technology to improve transmission durability, shift performance and minimize transmission shudder. It provides excellent oxidation and thermal stability resulting in superior wear protection.

### Specification / Technical Data

**HONDA** Z1, ZF TE-ML-14A, **VOLVO** 97341, **VOITH** H55.6335.XX, **MAN** 339 TYPE V-1, Z-1, **MITSUBISHI** SP-II AND SP-III, **MERCEDES BENZ**, **VW** AND **BMW** 4 AND 5 SPEED AUTOMATICS, **JASO** 1-A, **TOYOTA** T-III, T-IV, **NISSAN** Matic D & J, **FORD** 95LE, 85LE, **GM** ATF DEXRON III  
Available in: 1L, 5L, 20L, 60L, 205L, 1000L



## CVT 10

Code: 9365

A new generation, advanced long drain automatic transmission fluid manufactured from advanced synthetic base stocks and compounded with the latest CVT additive technology to enhance oxidation stability and thermal resistance, improve low temperature operation, provide good fuel economy in stop-start traffic conditions, impart specified friction control, improve load-carrying ability and resist corrosion and foaming tendency. **NOTE:** Not recommended for Hybrid CVT units (Toyota and Ford).

### Specification / Technical Data

**Honda** (HMMF, HCF-2), **Toyota /Lexus** TC, FE, **Nissan** (NS-3), **Ford** (CVT23), **Ford** (CVT30 / Mercon C, **Audi/VW** (TL 52180 G 052 180 G052 516), **Mitsubishi** (Mitsubishi CVTF-J1, J4+, J4, SP III), **Mercedes Benz** (236.20), **Subaru** (K0425Y0710, CV-30 Lineartronic CVTF, High Torque CVT), **Mazda** CVTF, CVT3320, **Suzuki** (TC/ NS-2 /CVT Green2/CVT1V), **Dodge / Jeep** (NS-2 / CVTF+4), **GM / Saturn** (DEX-CVT), **Hyundai / Kia** (SP-III), **Shell** Green 1V  
Available in: 5L, 20L, 60L, 205L, 1000L



## DCTF (DSG)

Code: 9367

DCTF protects clutches and sustains consistent launch and anti-shudder durability for the lifetime of the transmission. It ensures performance at low temperature for the mechatronics, protection at high temperature for the gears and heat dissipation for the clutches and gears.

### Specification / Technical Data

**BMW:** 6/7 Speeds **FORD:** 6 Speed **CHRYSLER:** 6 Speed Powershift **NISSAN:** 6 Speed **MITSUBISHI:** 6 Speed **RENAULT:** 6/7 Speed **VOLVO:** 6 Speed **VW/AUDI/SKODA:** 6/7 Speed Refer to PDS for more complete listing  
Available in: 1L, 5L, 20L, 60L, 205L, 1000L



## SYN ALLISON HD

Code: 9357

**SYN ALLISON HD** is an exceptional quality, full synthetic ATF fluid designed specifically for Allison transmissions where "Rigorous Duty" application, extended drain interval and reduced life cycle costs are desired.

### Specification / Technical Data

**ALLISON** TES 353, **ALLISON** C4  
Available in: 5L, 20L, 60L, 205L, 1000L



## ATF DEXRON III

Code: 3100

**DEXRON III** is a transmission fluid designed for use in automatic transmissions where Dexron® III or Dexron® II fluids have been specified. This product is a high viscosity index fluid containing superior additive technology and greatly improved low temperature properties for smooth cold shifts.

### Specification / Technical Data

**DEXRON III** H / G / F, **FORD** MERCON, **ALLISON** C-4, **CATERPILLAR** TO-2, **POWER STEERING**  
Available in: 1L, 5L, 20L, 60L, 205L, 1000L



# AUTOMOTIVE GEAR OILS



## SYNGEAR FS 70W-75 GL-4+

Code: 9003

70W75 GL-4+ FULL SYNTHETIC is a low viscosity, high viscosity index, full synthetic manual gearbox lubricant containing sophisticated extreme pressure additives and base oils. It is designed to give maximum protection to gear boxes and enhance fuel economy and smoother shifting. Designed for 5 and 6 speed manual gearboxes.

### Specification / Technical Data

**API:** GL-4, **MTF** BOT 338, **ZF** TE-ML 11 (manual), **TREMEC** T-56  
Available in: 20L, 60L, 205L, 1000L



## SYNGEAR LS 75W-90 GL-5 & LS 80W-140 GL-5

Code: 9410 & 9420

Fully synthetic, limited slip multigrade gear lubricants providing superior wear protection, high temperature stability and excellent low temperature characteristics due to its blend of selected synthetic base stocks and premium extreme pressure additives. The 80W-140 grade contains Sturaco 7098 friction modifier for use in limited slip differentials that suffer from severe chatter.

### Specification / Technical Data

**API:** GL-5, **MT-1**, **MACK** GO-J, **US MILITARY** MIL-PRF-2105E, **SAE** J2360, **ZF** TE-ML 05B/05D/07A/21, **BORG WARNER** 5M - 50 Available in: 5L, 20L, 60L, 205L, 1000L



## SYNGEAR 75W-85 GL-5

Code: 9402

SYNGEAR 75W85 GL-5 is a high viscosity index, full synthetic manual gearbox and differential lubricant formulated with sophisticated extreme pressure additives and synthetic base oils. It is designed to give maximum protection to transaxles, differentials and gearboxes operating under the most arduous conditions. It is suitable for both limited slip and non-limited slip differentials.

### Specification / Technical Data

**API:** GL-5/ GL-4/ LS, **MT-1**, **SAE** J2360 Available in: 20L, 60L, 205L, 1000L



## GEAR OIL 75W-90 SS GL-5

Code: 9405

75W90 SS GL5 LS offers superior wear protection and excellent low temperature characteristics for maximum protection and extended drain intervals to gearboxes and differentials. 75W90 SS GL5 LS is ideal for modern 4 and 5 speed manual gearboxes and transaxles. It is also suitable for limited-slip differentials.

### Specification / Technical Data

**API:** GL-5/ GL-4/ LS, **MT-1** Available in: 20L, 60L, 205L, 1000L



## ROAD RANGER RR 50

Code: 4010

**ROAD RANGER** 50 is a purpose designed lubricant for the trucking industry where manual gearboxes such as Road Ranger, Eaton Fuller, Rockwell and Spicer are commonly fitted.

### Specification / Technical Data

**API:** GL-1, **Ford** ESW-FM2C-85A, **GM** HN1223 Available in: 20L, 60L, 205L, 1000L





# AUTOMOTIVE GEAR OILS



## SYNGEAR ULTRASHIFT 40

Code: 9435

SYNGEAR ULTRASHIFT 40 is a multipurpose, synthetic, non-EP manual transmission fluid for heavy-duty truck applications. Its advanced formulation provides extended drain and severe service performance. This fluid is suitable for heavy duty manual transmissions such as Mack and Eaton which requires non-EP type fluids.

### Specification / Technical Data

API: API Service Category MT-1, **Eaton**: PS-386, PS=164 Rev 7, **Roadranger®** extended drain, **International** TMS 6816, **Mack Truck** TO-A Plus, **Meritor** O-81 (Publication TP-90014), **ZF** Freedomline, **Spicer** Transmission Extended Drain, **Dana** synchronized and non-synchronized transmissions **Available in:** 20L, 60L, 205L, 1000L



## GEAR OIL 75W-80 GL-4

Code: 4002

High viscosity index, semi synthetic manual gearbox lubricant containing sophisticated extreme pressure additives and base oils. It is designed to give maximum protection to transaxles and gearboxes operating under the most arduous conditions.

### Specification / Technical Data

API: GL-4, **MERCEDES BENZ** MB 235.10, **CHRYSLER** MS 9244, **LAND ROVER** MTF 94, **ZF** TE-ML 02D, **HONDA** MTF 7289 **Available in:** 20L, 60L, 205L, 1000L



## GEAR OIL 75W-90 GL-5

Code: 4003

Multi grade manual gearbox lubricant offering superior wear protection and excellent low temperature characteristics designed to give maximum protection to gearboxes and differentials.

### Specification / Technical Data

API: GL-5, **MT-1**, **US STEEL** 224, **MACK** GO-J **Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## GEAR OIL 80W-90 GL-5

Code: 4004

Multi grade manual gearbox lubricant offering superior wear protection and excellent low temperature characteristics designed to give maximum protection to gearboxes and differentials.

### Specification / Technical Data

API: GL-5, **MT-1**, **US STEEL** 224, **MACK** GO-J **Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## GEAR OIL 85W-140 GL-5

Code: 4007

Multi grade manual gearbox lubricant offering superior wear protection and excellent low temperature characteristics designed to give maximum protection to gearboxes and differentials.

### Specification / Technical Data

API: GL-5, **MT-1**, **US STEEL** 224, **MACK** GO-J, **US MILITARY** MIL-L-2105E, **CHRYSLER** MS-9020 **Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## LIMITED SLIP LS 90 GL-5 & LS 140 GL-5

Code: 4006, 4009

Extreme pressure, heavy duty, high performance gear lubricant recommended for spiral or hypoid axles, both with and without "limited slip" design. It contains extreme pressure additives and special friction modifiers.

### Specification / Technical Data

API: GL-5, **DIN** 51517 PART 3, **DANA** 40819, **US STEEL** 224, **US MILITARY** MIL-L-2105E, **AGMA** 9005-E02, **ZF** TE-ML 07A, **ZF** TE-ML 08, **FORD** - M2C118-A **Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



# OUTDOOR OILS



## 2 STROKE TC

Code: 1900

Low ash high performance two stroke engine oil, suitable for use in all two stroke Japanese and European motorcycle engines, lawn mowers, brush cutters and chainsaws. **2-STROKE** should be used in conjunction with the engine manufacturers recommendation regarding fuel/oil ratio, however, in the absence of such information a 50 to 1 fuel/oil ratio is advised.

### Specification / Technical Data

**JASO** FC, **API** TC, **ISO-L-EGC**, **TISI** 1040-2534, **BIS** T-SL4 **Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## 2 STROKE OUTBOARD TCW-III

Code: 1950

Premium low smoke engine oil combined with an ashless additive system, designed for all water cooled two stroke outboard engines including oil injected and pre-mix systems. **OUTBOARD OIL TCW-III** is self-mixing and suitable for oil injection systems often fitted to modern two stroke outboards.

### Specification / Technical Data

**EVINRUDE**, **MERCURY**, **YAMAHA**, **TOHATSU**, **JOHNSON**, **FORCE**, **SUZUKI**, **MARINER** **Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## SYNBIO OUTBOARD TC-W3

Code: 8950

Ashless water-cooled synthetic biodegradable outboard two-stroke oil meeting NMMA TC-W3. Its ashless detergents prevent pre-ignition and spark plug fouling which are critical in outboard motors. It is biodegradable so marine life will not be harmed in case of accidental spillage.

### Specification / Technical Data

**NMMA** TC-W3, **EVINRUDE**, **JOHNSON**, **MERCURY**, **FORCE**, **YAMAHA**, **SUZUKI**, **TOHATSU**, **MARINER** **Available in:** 1L, 5L, 20L, 205L, 1000L



## 4 STROKE MARINE FC-W (10W-30, 10W-40)

Code: 1850, 1860

4 STROKE MARINE FC-W is formulated using severely refined mineral oils to give excellent protection against engine wear for prolonged engine life for marine 4-stroke engines. Gel resistant formulation reduces the likelihood of fuel or oil blockage and subsequent engine damage.

### Specification / Technical Data

**NMMA** FC-W, **EVINRUDE**, **JOHNSON**, **MERCURY**, **FORCE**, **YAMAHA**, **SUZUKI**, **TOHATSU**, **MARINER** **Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## 4 STROKE

Code: 1830

Designed for small petrol and diesel engines. A mono grade SAE 30 oil ideally suited for lawn mowers, brush cutters and small agricultural stationary equipment etc.

### Specification / Technical Data

API: SG/CD, **Briggs & Stratton**, **Rover**, **GM**, **Ford** **Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## CHAIN AND BAR OILS

Code: 7031, 7032, 7033

A tacky lubricant made for the protection of chains, bars and sprockets on chainsaws. It is suitable for use with both automatic and manually operated oil systems, and can be used on other chain driven equipment including motorcycles, lawnmowers and farm equipment. Available in ISO 150, 220, 320

### Specification / Technical Data

**Available in:** 1L, 5L, 20L, 60L, 205L, 1000L





# INDUSTRIAL OILS



## HYDRAULIC OILS

Codes: 5000 - 5007

Premium hydraulic oil, containing high quality zinc antiwear additives promoting superior performance in oxidation protection, water tolerance, thermal stability and pump durability.  
**Available in ISO 5, 10, 15, 22, 32, 46, 68, 100, 150"**

### Specification / Technical Data

**DENISON** HF-0, HF-1 and HF 2, **CINCINNATI MACHINE** P-68, P-70, p-69, **EATON BROCHURE** 694 for 35VQ25A, **DIN** 51524 Part 2 (HLP), **ASTM** D 6158, **AFNOR** NF E 48-603, **ISO** 11158  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## HVI SUPER HYDRAULIC

Codes: 5100 - 5107

Premium performance anti-wear hydraulic oil, made with high viscosity index improvers designed to maintain close viscosity control over wide temperature range applications.  
**Available in ISO 15, 22, 32, 46, 68, 100, 150**

### Specification / Technical Data

**DENISON** TP02100, **VICKERS** 1-286-S, **DIN** 51524 Part 3 (HVP), **US STEEL** 126 & 127, **AFNOR** NF E 48-603 HM and HLI  
**Available in:** 20L, 60L, 205L, 1000L



## COMPRESSOR OILS

Codes: 7010 - 7014

Formulated from highly refined base oils and state of the art non-hydrolising anti wear additives developed for rotary screw and reciprocating air compressors. The result is a finished product which has long life, protects compressor components from wear and also separates readily from water. They are designed for use of up to 2000 hours with air discharge temperatures of up to 85°C. Drain intervals can be extended to up to 4000 hours in rotary screw compressors where an oil test program is in place.  
**Available in ISO 32, 46, 68, 100, 150, 220**

### Specification / Technical Data

**DIN** 51527 PART 2, **AFNOR** NF E 48-603, **GE GEK** 32568 A/C, **MIL-L-17672** D, **US STEEL** 120, **DIN** 51524, PART 1, 2 AND 3(HLP, HLVP), **DIN** 51515 PART 1 AND PART 2, **DIN** 51506(VBL, VCL, VDL), **DENISON** HFO, **CINCINNATI** P38, P55, P57, P62, **VDMA** 24568, **TLV** 9013, **DP** 6521 (DAA,DAB,DAH,DAG), **MITSUBISHI HEAVY INDUSTRIES** E00-87182  
**Available in:** 20L, 60L, 205L, 1000L



## INDUSTRIAL GEAR OILS

Codes: 7020 - 7026

Premium quality, heavy duty industrial gear lubricants manufactured from highly refined base stocks and extreme pressure additives. Designed for use in all types of industrial gear boxes, sprockets, chain drives and slide guides.  
**Available in ISO 68, 100, 150, 220, 320, 460, 680**  
**Note:** Also available in Full Synthetic.

### Specification / Technical Data

**DAVID BROWN** S1.53.101E, **AGMA** 250.04, 9005-D94, **DIN** 51 517 (PART 3), **U.S STEEL** 224, API GL-3  
**Available in:** 20L, 60L, 205L, 1000L



## SLIDEWAY OILS

Codes: 7079 - 7080 - 7082

Recommended for machine equipment where a slideway motion is at hand. It is also used for circulating lubrication of bearings and gears. **SLIDEWAY OILS** will adhere to the working surfaces under high load and temperature and resist wash out from water soluble cutting fluids.  
**Available in ISO 32, 68, 220**

### Specification / Technical Data

**Available in:** 20L, 60L, 205L, 1000L



# INDUSTRIAL OILS



## SOLCUT EP MINERAL

Code: 7125

General purpose chlorine free cutting fluid. It forms a stable milky emulsion of high lubricity when diluted with water and is resistant against bacterial spoilage. It contains an advanced Biocide designed to protect against both gram-negative and gram-positive bacteria.

### Specification / Technical Data

Designed for machining applications such as drilling, milling, grinding, tapping and threading of high carbon alloy and stainless steels  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## SOLCUT EP SEMI SYNTHETIC

Code: 7130

A semi synthetic water extendable cutting fluid for use on ferrous and non-ferrous metals providing excellent corrosion protection and has a superior degree of lubricity with exceptional wetting and cooling properties and forms a clear emulsion when diluted with water. **SOLCUT EP SEMI SYN** contains an advanced Biocide designed to protect against both gram-negative and gram-positive bacteria. This product does not contain any chlorine, nitrites, phenols or active sulphur.

### Specification / Technical Data

Designed for machining applications such as drilling, milling, grinding, tapping and threading of high carbon alloy and stainless steels  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## SOLCUT EP FULL SYNTHETIC

Code: 9025

Concentrated, nitrile free, soluble fully synthetic cutting fluid, producing an extremely stable, clear solution. A multi-purpose metal working fluid designed for use in a wide variety of machining operations and blended with a unique biocide package that extends sump life by preventing spoilage and odours. **SOLCUT EP FULL SYN** has high anti-rust properties and leaves no staining on copper. It provides high lubricity for application on all metals. This product does not contain any chlorine, nitrites, phenols or active sulphur.

### Specification / Technical Data

Designed for machining applications such as drilling, milling, grinding, tapping and threading of high carbon alloy and stainless steels  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## NEATCUT MINERAL

Code: 7120

Extreme pressure mineral non-soluble cutting oil with low odour characteristics for machine operator's comfort. It contains an extreme pressure additive system, rust and anti-foam additives for long tool life, good heat transfer and surface finish.

### Specification / Technical Data

(1) Chlorine free (2) Low viscosity (3) Compatible with all metals (4) Non staining on ferrous and non ferrous metals  
**Available in:** 5L, 20L, 60L, 205L, 1000L



# SPECIALITY INDUSTRIAL OILS



## BIODRAULIC HYDRAULIC OILS (ISO 32, 46, 68)

Codes: 8002 - 8003 - 8004

BIODRAULIC HYDRAULIC OILS are fortified vegetable-based fluids that are biodegradable and therefore ultimately harmless to the environment. These are suitable for all types of machinery where leaks of fluid would be unacceptable to the surrounding environment including forklifts in cool stores, golf course equipment, wineries, fruit processing plant, food production areas, grape harvesting equipment, meatworks and abattoirs etc.

**Available in:** 20L, 205L, 1000



# SPECIALITY INDUSTRIAL OILS



## BIOSYN HYDRAULIC OILS (ISO 32, 46, 68)

Codes: 8102 - 8103 - 8104

BIOSYN HYDRAULIC OILS are high performance, biodegradable, ester-based fluids that offer friendliness to the environment while providing extreme hydraulic oil performance and outstanding equipment protection. These are suitable for all types of heavy-duty machinery operating in tough conditions and where leaks of fluid would be unacceptable to the surrounding environment. These oils have excellent low temperature flowability and high temperature resistance making them suitable in extreme temperature environments.

**Available in:** 20L, 205L, 1000

## BIO ROCKDRILL OILS (ISO 150, 220, 320, 460)

Codes: 8735 - 8736 - 8737 - 8738

BIO ROCKDRILL OILS are biodegradable lubricants for rock drill applications. These are formulated with vegetable oils and special additives to provide renewable protection to drill equipment. It is suitable for drilling rigs working in soft or hard rock conditions and will adhere to the working surfaces of pneumatic rams and air motors operating under high speed assisting in increasing equipment life.

**Available in:** 20L, 205L, 1000

## BIO AGRITRANS

Code: 8420

BIO AGRITRANS is an advanced biodegradable universal tractor transmission fluid (UTTO) Designed to meet the requirements of modern tractor transmissions, hydraulics and wet brakes. Bio Agritrans provides excellent performance against major OEM requirements. It gives the highest levels of wear prevention and chatter control in all conditions.

**Available in:** 20L, 205L, 1000

## BIO SAW GUIDE OIL

Code: 5163

BIO SAW GUIDE OIL is a fortified vegetable oil-based fluid that is biodegradable and therefore ultimately harmless to the environment. It is suitable for all types of saws, circular and band, where loss of fluid to the surrounding environment including State and National Parks, water catchment areas, golf courses, wildlife habitat and sensitive logging areas would be unacceptable. It is a moderately rated oil and should be used where constant operating temperatures should not exceed 80 °C in order to achieve optimum fluid life.

**Available in:** 205L, 1000

## SYNTHETIC INDUSTRIAL GEAR OILS (AVAILABLE IN SYNTHETIC, PAO, PAG)

High performance and longer life industrial gear oils that provide overall superior performance than mineral industrial gear oils. These are available in various synthetic base oils ( Synthetic, PAO or PAG) to suit specific performance requirements. Also available in ISO Grades 150, 220, 320, 460. Please consult with your TriTech sales professional or TriTech Technical Department for advice.

## PAO SYN COMPRESSORS OILS (ISO 46, 68, 100)

Codes: 9715 - 9716 - 9717

PAO SYN COMPRESSOR OILS are air compressor lubricants formulated from synthetic PAO base oils and state of the art ash-less, anti-wear additives developed for rotary screw, rotary vane, reciprocating compressors and vacuum pumps. These outperform all mineral-based compressor oils. PAO based oils have longer life and better protects compressor components from excessive heat, wear in extreme conditions.

**Available in:** 20L, 205L, 1000

## HEAT TRANSFER OILS (AVAILABLE IN MINERAL, SYNTHETIC, PAO)

High performance HEAT TRANSFER OILS for use in thermal transfer systems. These are suitable for use in closed and open, cold-oil sealed, indirect heating and cooling systems. These have excellent oxidation and thermal resistance with the synthetic and PAO versions providing superior oil life and oxidation resistance. Available in ISO grades 32, 46 and 68.

**Available in:** 20L, 205L, 1000

## CONCRETE MOULD RELEASE OILS (MINERAL OR BIODEGRADABLE)

MOULD RELEASE OILS are available in mineral oil or vegetable oil-based versions. They provide excellent surface conditioning characteristics to enable quick release of the mould and impart an excellent surface finish. The vegetable oil-based version is biodegradable and provides the same performance as the mineral oil version. These release oils are suitable for all types of moulds and formwork where concrete, plaster or clay brick, tile or paver products are being manufactured.

**Available in:** 20L, 205L, 1000

# TTR MOTORCYCLE & RACING OILS



## SYNGEAR LS 75W-90 GL-5 & LS 80W-140 GL-5

Code: 9410 - 9420

Fully synthetic, limited slip multigrade gear lubricants providing superior wear protection, high temperature stability and excellent low temperature characteristics due to its blend of selected synthetic base stocks and premium extreme pressure additives. The 80W-140 grade contains Sturaco 7098 friction modifier for use in limited slip differentials that suffer from severe chatter.

### Specification / Technical Data

**API:** GL-5, MT-1, **MACK** GO-J, **US MILITARY** MIL-PRF-2105E, **SAE:** J2360, **ZF** TE-ML 05B/05D/07A/21, **BORG WARNER** 5M – 50

**Available in:** 5L, 20L, 60L, 205L, 1000L



## SPEEDWAY 50

Code: 9212

Specially formulated oil for racing engines running on methanol or other alcohol fuels which are incompatible with normal engine lubricants. It is a shear resistant lubricant enabling high speed high temperature performance to be obtained over several race meetings.

### SHAKE BEFORE USE

**Available in:** 5L, 20L, 60L, 205L, 1000L



## MOTO 4T 10W-40 MA2 FS

Code: 9109

Full synthetic bike oil ensures quick circulation of oil to all moving parts during cold weather starts, providing additional wear protection during this critical time of an engines operation. It provides exceptional clutch performance, better protection from piston deposits, less oil thickening and sludge deposits, and exceptional anti-wear protection under high speed high stress riding conditions.

### Specification / Technical Data

**API:** SL, **JASO** MA2

**Available in:** 5L, 20L, 60L, 205L, 1000L



## MOTO 4T 10W-50 MA2 FS

Code: 9108

Full synthetic bike oil ensures quick circulation of oil to all moving parts during cold weather starts, providing additional wear protection during this critical time of an engines operation. It provides exceptional clutch performance, better protection from piston deposits, less oil thickening and sludge deposits, and exceptional anti-wear protection under high speed high stress riding conditions.

### Specification / Technical Data

**API:** SL, **JASO** MA2

**Available in:** 5L, 20L, 60L, 205L, 1000L





# TTR MOTORCYCLE & RACING OILS



## MOTO 4T 10W-40 MA2 SS

Code: 9103

Specially formulated 4T semi synthetic motorcycle oil representing a new generation bike oil which provides exceptional clutch performance, better protection from piston deposits, less oil thickening and sludge deposits, and exceptional anti-wear protection under high speed high stress riding conditions.

### Specification / Technical Data

**API:** SL, **JASO** MA2  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## MOTO 4T 10W-50 MA2 SS

Code: 9107

Specially formulated 4T semi synthetic motorcycle oil representing a new generation bike oil which provides exceptional clutch performance, better protection from piston deposits, less oil thickening and sludge deposits, and exceptional anti-wear protection under high speed high stress riding conditions.

### Specification / Technical Data

**API:** SL, **JASO** MA2  
**Available in:** 5L, 20L, 60L, 205L, 1000L



# AGRICULTURAL OILS



## AGRITRANS 10W-30 UTTO

Code: 4200

A multi-functional tractor fluid designed to meet the requirements of modern tractor transmissions and hydraulics. Agritrans is fortified with Anti Squawk additives to give the highest levels of wear prevention at start up and throughout the operative period.

### Specification / Technical Data

**API:** GL-4, **ALLISON** C4, **JOHN DEERE** J20C, **CATERPILLAR** TO-2, **VCE** WB 101, **CASE NEW HOLLAND** MAT3525 (Full list available on request)  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## AGRITRANS ULTRA

Code: 4215

AGRITRANS ULTRA is a zinc-free, premium multi-functional tractor fluid designed to meet the requirements of modern tractor transmissions and hydraulics. AGRITRANS ULTRA is the latest spec product developed specifically for latest generation Case New Holland (SNH) CVT transmissions. It is also suitable for older tractor fluid specifications for simplicity of inventory.

### Specification / Technical Data

**API** GL-4, **ALLISON** C4, **CASE NEW HOLLAND** CNH MAT3540, CNH MAT 3525, 3526, ESN M2C86B & C, CNH MAT 3505, **JOHN DEERE** J20C/J20D (Full list available on request)  
**Available in:** 5L, 20L, 205L, 1000L



## MULTIFARM 15W-40 STOU

Code: 2600

A multi-purpose lubricant designed to lubricate a wide range of applications on farm. Developed with special frictional additives specifically to deliver protection and performance for engines, transmissions, hydraulics, wet brakes and front axles.

### Specification / Technical Data

**API:** CG-4 / SF, **API** GL-4, **ALLISON** C4, **ACEA** E3, **JOHN DEERE** J27 & J20C, **NEW HOLLAND** 82009201 / 2 / 3, **MASSEY.F** M1135, 1139, 1143, 1144, 1145, **CATERPILLAR** TO-2, **FORD** M2C 159B / C & 134D, **ZF** TE-ML 06A / 06B / 06C / 07B, **CASE** MAT 3525 & 3526  
**Available in:** 5L, 20L, 60L, 205L, 1000L



## POWERTRANS TO-4 OILS

Codes: 3710 - 3730 - 3750 - 3760

High performance, multifunctional transmission fluids blended from premium base oils and selected additives designed to meet the requirements of Allison, Caterpillar and Komatsu final drives, powershift transmissions, torque converters, hydraulic systems, off-highway equipment and any other system calling for TO-4 specification.

**Available in:** SAE 10W, 30W, 50W, 60W

### Specification / Technical Data

**API:** CF / CF-2, **ALLISON** C-4, **CATERPILLAR** TO-4M, **CATERPILLAR** TO-4, **KOMATSU**  
**Available in:** 20L, 60L, 205L, 1000L





# POWERING TOMORROW

1300 46 33 33





# COOLANTS



## LONG LIFE COOLANT GREEN

Code: 6035

An all organic blend of corrosion inhibitors and ethylene glycol, designed to provide superior longlife corrosion protection and anti-freeze / anti-boil protection for all types of petrol, diesel and gas engines in passenger and light commercial vehicles, heavy duty commercial, industrial, on highway, marine and stationary applications. The product is available dyed red or green for ready identification.

### Specification / Technical Data

Maximises the period between changing coolant. **Passenger vehicles and light commercial transporters – 500,000kms / 5 years\* (whichever comes first) Heavy duty vehicles – 600,000kms / 6 years / 6,000hrs\* (when good quality water is used and as directed) \*at 50% dilution ratio.**  
Available in: 1L, 5L, 20L, 60L, 205L, 1000L



## LONG LIFE COOLANT RED

Code: 6036

An all organic blend of corrosion inhibitors and ethylene glycol, designed to provide superior longlife corrosion protection and anti-freeze / anti-boil protection for all types of petrol, diesel and gas engines in passenger and light commercial vehicles, heavy duty commercial, industrial, on highway, marine and stationary applications. The product is available dyed red or green for ready identification.

### Specification / Technical Data

Maximises the period between changing coolant. **Passenger vehicles and light commercial transporters – 500,000kms / 5 years\* (whichever comes first) Heavy duty vehicles – 600,000kms / 6 years / 6,000hrs\* (when good quality water is used and as directed) \*at 50% dilution ratio.**  
Available in: 1L, 5L, 20L, 60L, 205L, 1000L



## LLO PREMIX GREEN COOLANT

Code: 6032

LLO PREMIX GREEN COOLANT is a premium quality, organic, long life anti boil/anti-freeze ready to use coolant. It has been blended with high quality de-ionized water to ensure purity. It is based on carboxylate technology and contains no silicates, borates, phosphates, nitrites, nitrates or amines. It is suitable for both automotive and heavy-duty diesel engines.

### Specification / Technical Data

Maximises the period between changing coolant. **Passenger vehicles and light commercial transporters – 500,000 kms / 5 years\* (whichever comes first) Heavy duty vehicles – 600,000 kms / 6 years / 6,000 hrs\* (when good quality water is used and as directed).**  
Available in: 5L, 20L, 60L, 205L, 1000L



## LLO PREMIX RED COOLANT

Code: 6033

LLO PREMIX RED COOLANT is a premium quality, organic, long life anti boil/anti-freeze ready to use coolant. It has been blended with high quality de-ionized water to ensure purity. It is based on carboxylate technology and contains no silicates, borates, phosphates, nitrites, nitrates or amines. It is suitable for both automotive and heavy-duty diesel engines.

### Specification / Technical Data

Maximises the period between changing coolant. **Passenger vehicles and light commercial transporters – 500,000 kms / 5 years\* (whichever comes first) Heavy duty vehicles – 600,000 kms / 6 years / 6,000 hrs\* (when good quality water is used and as directed).**  
Available in: 5L, 20L, 60L, 205L, 1000L



# COOLANTS



## HD TRUCK COOLANT GREEN

Code: 6041

HD TRUCK COOLANT is a premium quality, organic, long life anti boil/anti freeze coolant concentrate. It is based on carboxylate technology and contains no silicates, borates, phosphates, nitrites, nitrates or amines. It is suitable for both automotive and heavy duty diesel engines.

### Specification / Technical Data

Phosphate-free for European OEM requirements and silicate-free for Japanese OEM requirements. It has a service life of up to 10 years / 1,000,000kms in heavy-duty diesel applications.

Available in: 5L, 20L, 60L, 205L, 1000L



## HDD TRUCK COOLANT BLUE

Code: 6043

HDD TRUCK COOLANT BLUE is an advanced heavy-duty diesel (HDD) anti-boil/anti-freeze coolant with nitrate / nitrite chemistry. The product is based on a combination of organic technology corrosion inhibitors with conventional heavy-duty chemical inhibitors common to USA technology for compliance with Cummins, Detroit and CAT equipment that contain low silicate, nitrite, nitrate and molybdate. This coolant contains nitrite-molybdate combination provides wet sleeve liner cavitation protection in heavy duty diesels.

### Specification / Technical Data

Caterpillar EC-1 / ELC, Case New Holland, Cummins CES 14603 / Bulletin 3666132 / ES Compleat Detroit Diesel Bulletin 7SE298, Japanese JS K 2234, Iveco Cursor Engine, Freightliner 48 – 22880, Komatsu AF-NAC, Mercedes Benz DBL 7700, Navistar, PACCAR, John Deere 8650-5, John Deere JDM HD24, Saab Scania 6901, Waukesha 4-1974D, Volvo (Spec No. 1286083), BMW N 600 69.0

Available in: 5L, 20L, 60L, 205L, 1000L



## HD TRUCK COOLANT GREEN PREMIX

Code: 6039

HD TRUCK COOLANT GREEN PREMIX is a ready-to-use, organic, long life anti boil/anti-freeze coolant. It is based on carboxylate technology and contains no silicates, borates, phosphates, nitrites, nitrates or amines. It is suitable for both automotive and heavy duty diesel engines.

### Specification / Technical Data

HD TRUCK COOLANT GREEN PREMIX has a service life of up six (6) years / 600,000kms / 6,000hrs\* in heavy duty diesels. This has obvious environmental advantages as a result of fewer coolant changes. There are no deleterious effects on hoses or gaskets. (blended with high quality demineralized water at 50/50 dilution ratio)

Available in: 20L, 205L, 1000L

## HD TRUCK COOLANT YELLOW

Code: 6049

HD TRUCK COOLANT is a premium quality, organic, long life anti boil/anti-freeze coolant concentrate. HD TRUCK COOLANT YELLOW is based on carboxylate technology and contains no silicates, borates, phosphates, nitrites, nitrates or amines. It is suitable for both automotive and heavy duty diesel engines. Protects cooling systems from corrosion and scale formation.

### Specification / Technical Data

HD TRUCK COOLANT YELLOW has a service life of up to 5 years / 500,000kms\* in automotive applications and up to 6 years / 600,000kms / 6,000hrs\* in heavy duty diesels. This has obvious environmental advantages as a result of fewer coolant changes. There are no deleterious effects on hoses or gaskets.

Available in: 20L, 205L, 1000L



# BRAKE FLUIDS



## BRAKE FLUID DOT 4

Code: 6010, 6011

High performance polyglycol brake fluid designed for use in a wide range of brake and clutch applications where DOT 4 specifications are called for. DOT 4 has a high boiling point and low volatility and is recommended for re-fill or top-up of brake and clutch systems in passenger cars, light and heavy commercial vehicles, four wheel drives, tractors and motorcycles. **Available in Natural and Blue**

### Specification / Technical Data

**ISO 4925, SAE J1704, GMH HN 1796, FORD ESW FM6C-2, US FMVSS 116 DOT 3 AND DOT 4, AUST. STAND. 1960-1983 GRADE 3**

**Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## BRAKE FLUID DOT 3

Code: 6015

High performance polyglycol brake fluid designed for use in a wide range of brake and clutch applications where DOT 3 specifications are called for. Do not use in vehicle calling for a DOT 4 brake fluid.

### Specification / Technical Data

**ISO 4925 CLASS 3, US FMVSS NO 116 DOT 3, SAE J1703, AS 1960-2005 GRADE 1,**

**Available in:** 1L, 5L, 20L, 60L, 205L, 1000L



## BRAKE FLUID DOT 5.1

Code: 6012

DOT 5.1 Brake Fluid is a premium, Full Synthetic (Polyglycol), non-silicone brake fluid designed for use in a wide range of brake and clutch applications. DOT 4 has a high boiling point and low volatility and is recommended for re-fill and top-up of brake and clutch systems in passenger cars, SUVs, light and heavy commercial vehicles, four wheel drives, tractors and motorcycles.

### Specification / Technical Data

**US FMVSS 116 DOT 5.1, DOT 4, DOT 3, SAE J 1703, SAE J 1704, ISO 4925 (Classes 3, 4, & 5.1)**

**Available in:** 1L, 5L, 20L,



## RACING BRAKE FLUID 320

Code: 6013

RACING FLUID 320 is a high performance, high boiling point brake fluid recommended for applications where very high temperatures are generated during braking. Its high minimum boiling point of 320 °C makes it ideal for racing and high performance cars.

### Specification / Technical Data

**US FMVSS 116 DOT 5.1, DOT 4, SAE J 1703, SAE J 1704**

**Available in:** 1L, 5L, 20L,



# GREASE



## LITHTAC EP2 RED

Code: 8110

Premium, heavy duty EP2 grease ideally suited for applications in which heavy shock loading is encountered. The combination of polymers and heavy viscosity base oils and tackifiers make this grease ideal. The polymer ensures the grease will stay where it is applied and is suitable for automotive and industrial equipment operating in wet, muddy or dusty conditions

### Specification / Technical Data

NLGI 2, DROPPING POINT 195°C, FOUR BALL WELD LOAD 450 KGS

**Available in:** 450G, 2.5KG, 20KG, 55KG, 180KG



## MOLYLITH EP2 BLACK

Code: 8130

Lubricating grease formulated to meet the extreme conditions encountered in off - highway construction equipment as well as heavy duty applications. This product is a Lithium Complex thickened grease blended with high viscosity base fluids for exceptional film strength and is fortified with 3% molybdenum disulfide for additional load carrying capacity and anti-wear performance.

### Specification / Technical Data

NLGI 2, DROPPING POINT 250°C, FOUR BALL WELD LOAD 500 KGS MOLYBDENUM DISULPHIDE 3%

**Available in:** 450G, 2.5KG, 20G, 55KG, 180KG



## ULTRATUF PLANT EP2

Code: 8140

ULTRATUF PLANT GREASE EP2 is a heavy-duty lithium complex grease containing heavy base oils for lubricating anti-friction and plain bearings, operating under high load and/or high temperature conditions found in such industries as steel works, quarries, agriculture, heavy plant machinery, dock side, off shore, etc.

### Specification / Technical Data

NLGI 2, DROPPING POINT 250°C, FOUR BALL WELD LOAD 500 KGS

**Available in:** 450G, 2.5KG, 20KG, 55KG, 180KG



## LITHPLEX EP2 BLUE

Code: 8120

Premium lithium complex lubricating grease containing a tackiness agent. This universal lithium complex grease has a high dropping point in excess of 260°C, which ensures retention where high temperatures are encountered. It offers significant advantages over conventional soap and clay based greases in terms of shear stability, thermal stability, water resistance and pumpability.

### Specification / Technical Data

NLGI 2, DROPPING POINT 250°C, FOUR BALL WELD LOAD 315 KGS

**Available in:** 450G, 2.5KG, 20KG, 55KG, 180KG



## MOLYPLUS SHD PLUS

Code: 8135

MOLYPLUS SHD PLUS GREASE EP2 is a super heavy-duty lubricating grease formulated to meet the extreme conditions encountered in mining and off-highway construction equipment plus other heavy-duty applications. This product is a Lithium Complex thickened grease blended with a very high viscosity base fluids for exceptional film strength and is fortified with 5% molybdenum disulphide for extreme load carrying capacity and anti-wear performance.

### Specification / Technical Data

NLGI 2, DROPPING POINT 250°C, FOUR BALL WELD LOAD 800 KGS

**Available in:** 450G, 2.5KG, 20KG, 55KG, 180KG



## SULFOTECH EP2

Code: 8185

SULFOTEC EP2 is a super high-performance grease with exceptional load carrying ability. It is a Calcium Sulfonate grease which has a natural inherent extreme pressure (EP) properties that stand out from the rest to offer extremely superior wear protection that allows equipment to run at peak performance for longer. Ideal in wet and salty environments even underwater. On top of many automotive, industrial, earthmoving and farm applications, it is also suitable to marine applications, suspension bridges and other applications exposed to salty conditions.

### Specification / Technical Data

NLGI 2, DROPPING POINT 270°C, FOUR BALL WELD LOAD 800 KGS

**Available in:** 450G, 2.5KG, 20KG, 55KG, 180KG





## POLYTECH EHD EP2

Code: 8195

POLYTEC EHD EP2 is a multi-purpose premium quality long life grease that has been specifically designed for bearing lubrication under conditions of elevated temperature and high speeds. POLYTEC EHD EP2 is manufactured from a high viscosity index base oil which has been thickened with an advanced polyurea thickener. It is especially recommended for high temperature / high-speed applications. Applications include anti-friction bearings in electric motors, turbines and generators. In industrial applications, its excellent water repellency makes it especially suitable for water pumps and other heavy duty applications in wet environments.

### Specification / Technical Data

NLGI 2, DROPPING POINT 250°C, FOUR BALL WELD LOAD 315 KGS  
Available in: 2.5KG, 20KG, 55KG, 180KG



## SEMI FLUID GREASES (EP1, EP0, EP00)

Code: 8107, 8105, 8100

LITHIUM SEMI-FLUID GREASE (EP1, EP0, EP00) are premium quality semi-fluid greases designed for centralised lubrication systems. Suitable for anti-friction and plain bearings subjected to high load conditions. LITHIUM SEMI FLUID GREASES can also be used for gearboxes designed to operate with a semi-fluid grease.

### Specification / Technical Data

NLGI 1, 0, 00  
Available in: 2.5KG, 20KG, 55KG, 180KG



## OTHER GREASES AVAILABLE

• FOOD GRADE GREASE • ANTI-SEIZE GREASE • DIRECTIONAL GREASE

# PUMPS



### 20 LITRE GEAR & ATF HAND OPERATED OIL PUMPS

- Easy down-stroke displacement
- 1.5M of anti-kink hose fitted with anti-drip nozzle & drain back nozzle holder
- Telescope extension
- Ideal pump for the transfer of engine, gear, diff & hydraulic oils



### OIL DISTRIBUTION KITS

- Kit includes RAASM 3:1 or 5:1 ratio drum pump, 4M hose kit & oil control gun
- Ideal for small to medium workshop transfer applications



RAASM 3:1 Kit W/Metered Gun  
RAASM 5:1 Kit W/Metered Gun



### 205 LITRE STANDARD OIL DRUM PUMP

- Solid cast iron construction
- Approx. 3 revolutions per litre
- 3 piece steel suction pipe & 2" bung adaptor
- Suitable for most motor oils & diesel
- Not recommended for petrol or gear oil



### STANDARD DUTY LEVER ACTION GREASE GUN & PISTOL GRIP GREASE GUN

- Fitted standard with air valve & bulk filler
- Complete with rigid/flexible outlet & 4 jaw coupler



Lever Grease Gun 450g  
Pistol Grip Grease Gun 450g



# ADDITIVES



## DIESEL FUEL CONDITIONER

CODE: TQ018-250

### KEEPS INJECTORS CLEAN AND ELIMINATES MOISTURE

- Removes and dissolves water, condensation, varnish, gums and acids
- Revitalises stale fuel
- Improves fuel consumption and power
- Cleans injectors and continues to keep them clean
- Improves diesel engine performance
- Reduces smoke and engine deposits
- Prevents bacterial sludge formation
- Eliminates and kills diesel bug
- Improves fuel stability

Refer to website for further instructions



## PETROL INJECTOR CLEANER

CODE: TQ019-250

### KEEPS INJECTORS CLEAN AND SYSTEM MOISTURE FREE

- Cleans fuel injectors and fuel supply components
- Absorbs & displaces water from fuel system, hence minimising corrosion
- Will not harm fuel lines or injector pumps
- Suitable for both electronic and mechanical fuel injection systems
- Will not harm oxygen sensors and catalytic systems
- Improves fuel economy

Refer to website for further instructions



## FUEL SYSTEM CLEANER

CODE: TQ034-250

### SUITABLE FOR ALL PETROL AND DIESEL FUELS

- Removes and dissolves water, condensation, varnish, gums and acids
- Ensures fuel systems remain free standing
- Cleans and maintains the entire fuel system
- Reduces costly maintenance and down time
- Extends fuel filter life
- Ensures fuel stability in storage and revitalises stale fuel
- Improves fuel economy, power and performance
- Suitable for all marine applications

Refer to website for further instructions



## DPF CLEANER

CODE: TQ039-250

### HELPS PROMOTE CLEAN DIESEL PARTICULATE FILTERS

- Helps clean DPF
- Contains combustion enhancers to increase burn temperature
- Improves DPF efficiency
- Improves throttle response and engine performance
- Increases power
- Improves low temperature starting
- For common rail and direct injection diesel systems
- Compatible with recognised bio-diesel fuels

Refer to website for further instructions



## ICEBREAKER

CODE: TQ021-250

### FREEZE PREVENTING TREATMENT FOR DIESEL FUELS

- Minimises harmful emissions
- Eliminates diesel freezing
- Improves fuel economy
- Boosts engine power
- Recommended for 4WD's in the snow
- Inhibits the growth of wax crystals in the fuel

Refer to website for further instructions



## LIFTER FREE (CONTAINS PENETRANTS & LUBRICANTS)

CODE: TQ026-250

### REMOVES SLUDGE, GUM & VARNISH DEPOSITS

- Helps remove sticky deposits
- Promotes free movement of lifters and PCV valves
- Helps maintain proper clearances
- Enhances proper lubrication and top-end quietness

Refer website for further instructions





# ADDITIVES



## ENGINE FLUSH

CODE: TQ023-250

### CLEANS OIL SYSTEMS

- Cleans hydraulic lifters, piston rings, engine valves and other moving components
- Stabilises compressions and helps lower exhaust emissions

- Minimises oil consumption and exhaust smoking
- Breaks down sludge and fights harmful hard oil formation.

Refer to website for further instructions



## ENGINE STOP LEAK

CODE: TQ025-250

### PREVENTS CRANKCASE OIL LOSS AND SEALS EXTERNAL LEAKS

- Versatile product used to cure or slow down leaks
- Suitable for use in petrol, dual fuel, CNG, LPG, and diesel fuelled engines
- May be used in manual transmissions and differentials

- Ideal for use on cork, neoprene or composite gaskets/seals
- Returns elasticity to seals and minimises porosity

Refer to website for further instructions



## AUTOMATIC TRANSMISSION CONDITIONER

CODE: TQ029-250

### SEALS AND CONDITIONS AUTOMATIC TRANSMISSION & POWER STEERING

- Assists in stopping oil leaks in transmissions and power steering
- Returns suppleness and condition to neoprene seals

- Fights build up of performance robbing gums and varnishes
- Maintains internal pressure and helps prevent leaks

Refer to website for further instructions



## RADIATOR STOP LEAK

CODE: TQ017-250

### STOP COOLING SYSTEM FLUID LEAKS

- Ideal as a temporary repair to cooling system leaks in emergency situations
- Seals leaks in radiator units, both cast iron and alloy cylinder heads, engine blocks, and heater units

- Use in conjunction with coolant to prevent leakage common in a cooling system. Acts as a lubricant for water pumps

Refer website for further instructions



## COOLING SYSTEM FLUSH

CODE: TQ015-250

### FAST ACTING COOLING SYSTEM CLEANSER

- Removes rust, scale and sludge from radiators, engine blocks and heater cores, restoring cooling system efficiency for all seasons

- Not harmful to rubber seals, O-rings and hoses
- Metal components and water pumps are also unaffected.

Refer website for further instructions



## RUST & CORROSION INHIBITOR

CODE: TQ036-250

### HYBRID TECHNOLOGY ENGINE COOLANT TYPE B MEETS AS/NZS 2108. 1:2004

- Prevents corrosion of alloy, cast iron and steel components
- Protects vital cooling system components

- Glycol free coolant concentrate
- Reduces cooling fluid foaming to prevent cavitation damage

Refer website for further instructions



# SPECIALTY PRODUCTS



## Solvents

Product Code	Description	Pack Size Available
993	Brake Cleaner	400g Aerosol / 20L / 200L
953	Solvent B1 (X55)	20L / 200L
953	Solvent 1425	200L
951	Parts Wash – High flash (Narrow Cut Kero)	20L / 200L
950	Parts Wash Liquid	25L

Some products are subject to an additional government Hydrocarbon Excise charge.

## Cleaning

Product Code	Description	Pack Size Available
440	Degreaser	400g Aerosol / 20L
441	Degreaser Concentrate	1L / 5L / 20L
446	Low Flash Degreaser	20L / 200L
447	Citrus Degreaser	20L
EN1150	Devilish Red Degreaser 2.2	5L / 20L / 200L
450	Truck Wash	5L / 20L / 200L
452	Heavy Duty Truck Wash	1L / 5L / 20L / 200L / 1000L
454	Truck Wash & Wax	1L / 5L / 20L / 200L
490	WD Spray/Fluid	400g Aerosol / 20L / 200L
491	Glass Cleaner	400g Aerosol / 20L
917	Fast Start Spray	300g Aerosol
918	Belt Dressing Spray	400g Aerosol
912	White Lithium Grease	400g Aerosol
972	Hand Cleaner – Mint Grit	500ml / 5L / 20L
9973	Germ-O-Kill Hand Sanitizer	1L / 5L / 20L
988	Interior Cleaner	400g Aerosol
989	Wheel Cleaner	400g Aerosol
990	Tyre Shine	20L / 200L
992	Carby Cleaner	400g Aerosol
993	Brake Cleaner	400g Aerosol / 20L / 200L

For more information please contact your local Area Manager or visit [tritechlubricants.com](http://tritechlubricants.com) for more information.



# TriTech

## S.A.P (Scheduled Analysis Program)

Oil Scheduled Analysis Program, or Oil S.A.P. for short, is a TriTech technical service that provides you with the inside knowledge about your vehicle or machinery. It allows detection of problems before these become serious. Our Oil S.A.P laboratory is staffed by specially trained technicians, experienced in a multitude of machines and components.

### WHAT TESTS ARE CONDUCTED?

TriTech Oil S.A.P services include oil and radiator coolant analysis. Tests include wear metal analysis, oil cleanliness analysis, oil condition analysis and detection of fuel, water, glycol and other contaminants. Additional tests may be performed if needed.

### MAXIMISE RELIABILITY & EXTEND EQUIPMENT LIFE

TriTech's Oil S.A.P can provide you with an accurate account of the health of your engines, power generators, gear boxes, hydraulic systems and other major components of your equipment. Knowing this information gives the opportunity to schedule maintenance and oil changes more effectively while maintaining maximum reliability. Studies show that an effective preventative maintenance system that includes an oil condition monitoring program proves to be three to five times more cost-effective than unscheduled maintenance and repair. TriTech's S.A.P can often detect the need to replace a small part, which can prevent the failure of a major component saving you from a major catastrophe.

Feedback from the field consistently show major benefits for users who regularly use TriTech S.A.P. Oil Analysis. A 10:1 payback ratio is common when comparing the amount saved on repair costs to the amount invested in S.A.P. Services. This figure is most likely to be conservative. Taking into account reductions in genuine "out of service" downtime, greater productivity, and the flow-through benefit of increased machine utilization. The objective of S.A.P analysis is to identify potential problems before they become catastrophic failures and cause costly unplanned downtime, and to realise the full value of the lubricants in action. Extend your drain because there is room to do so, or shorten drains because circumstances indicate it is prudent. This two-point strategy plan is the beauty of TriTech S.A.P trend analysis.

### The TriTech S.A.P. laboratory can evaluate more than 30 characteristics from each fluid sample, including

- Wear metals content
- Additive level
- Water content
- Fuel dilution
- Glycol / Coolant contamination
- Foreign particles and contaminants
- Viscosity
- Soot and sulphur compounds
- Oxidation
- And more

**Make TriTech S.A.P part of your business partnership program.**



# TECHNICAL & LABORATORY SERVICES



TriTech Lubricants boasts a world class in house technical support program with our laboratory, comprising state of the art oil analysis equipment. Our testing procedures and record keeping systems are supported by ISO 9001: 2015 accreditation.

TriTech offer an extensive range of technical services and support programs – all designed to help our customers optimise their lubrication programs and machine availability. For lubricants blenders with a select or limited laboratory capability, our services can be affordably utilised without the need for your own capital investment. All services are undertaken with total confidentiality guaranteed and outstanding value.

Laboratory –TriTech Lubricant's laboratory is integral to our business. It provides our customers with services such as technical advice on products and their applications and product testing and analysis. All TriTech's products are continuously being tested and evaluated to ensure they meet the most rigorous of standards.

## COLD-CRANKING SIMULATION (CCS)

Code: L 1500

**Test Method:** ASTM D5293, SAE J300 **Sample Required:** 150ml

### What is it?

The Cold Cranking Simulator (CCS) measures the apparent viscosity of oils at temperatures from  $-35^{\circ}\text{C}$  to  $-5^{\circ}\text{C}$ . It is a high shear method and is designed to simulate the oil viscosity under cold starting (cranking) conditions

### Why do we use it?

Low temperature cranking viscosity is one of the four basic viscosity measurements in SAE J300 which defines the rules around engine oil viscosity grades.



## EVAPORATION LOSS – (NOACK VOLATILITY)

Code: L 1600

**Test Method:** ASTM 5800

**Sample Required:** 150ml

### What is it?

Noack volatility determines the evaporative loss of engine oils. A sample of oil weighed and heated to a specific temperature ( $250^{\circ}\text{C}$ ) and maintained for 1 hour while enclosed in a crucible. At the end of the test the sample is cooled and reweighed. The difference, reported in a percentage, represents the samples evaporation loss.

### Why do we use it?

The more motor oils evaporate, the thicker and heavier they become, contributing to poor circulation, reduced fuel economy and increased oil consumption, wear and emissions. NOACK is a critical measurement tool for high tech synthetic and semi synthetic engine oils substantiating product performance. A lower percentage loss generally an indication of lower oil consumption.



## POUR POINT (PP) & CLOUD POINT (PP)

Code: L 1700

**Test Method:** PP = ASTM D6749, ASTM D97, ISO 3016  
CP = ASTM D7683, ASTM D2500, ISO 3015

**Sample Required:** 150ml

### What is it?

Pour Point of a lubricant is the temperature at which it becomes semi solid and loses its flow characteristics. It is the temperature at which the liquid ceases to pour that establishes the PP. Cloud Point refers to the temperature at which a liquid (as a petroleum oil) begins to cloud. The presence of solidified waxes thickens the oil and clogs fuel filters and injectors in engines.

### Why do we use it?

Pour Point - The moment a lubricant loses its' flow characteristics it loses its ability to lubricate and protect your metal components causing accelerated wear. Knowing the PP of an oil is vital when machinery is operating at low temperatures especially during start-up. Cloud Point - Petroleum-based lube oils contain dissolved wax. At a low enough temperature, referred to as the cloud point, this wax will separate from the oil and form wax crystals. These crystals can clog filters and small openings, deposit on surfaces such as heat exchangers, and increase the viscosity of the oil.



# TECHNICAL & LABORATORY SERVICES



## VISCOSITY (cSt) VISCOSITY INDEX (VII)

Code: L 1100

**Test Method:** ASTM D7042, ASTM D445, ISO 12185,  
ASTM D2270, ISO 2909

**Sample Required:** 100ml

### What is it?

Viscosity – Viscosity is a measurement of a fluid's resistance to flow and is the most important property of an oil. Commonly expressed as "thickness" or "weight". The higher a lubricant's viscosity, the thicker it will be and the more energy it will take to move an object through the oil. Viscosity Index – is the rate of change of viscosity between two temperatures. The lower the VI, the more the drop in viscosity as the oil warms up. The higher the VI value, the less the drop in viscosity as the oil warms up.

### Why do we use it?

Viscosity – Viscosity, by definition, is an oil's resistance to flow and shear. It is the single most critical physical property of the oil as it affects both the wear rate and the fuel efficiency. Viscosity Index - The viscosity index, or VI, of a lubricant describes how the oil's viscosity changes as its temperature changes. As temperatures increase, viscosities decrease, and vice versa.



## X-Ray FLUORESCENCE (XRF) SPECTROMETRY

Code: L 1200

**Sample Required:** 100ml

### What is it?

XRF (X-ray fluorescence) is a non-destructive analytical technique used to determine the elemental composition of materials. XRF analysers determine the chemistry of a sample by measuring the fluorescent (or secondary) X-ray emitted from a sample when it is excited by a primary X-ray source.

### Why do we use it?

Deployed either as a root cause analysis tool, or in conjunction with other techniques to characterise abnormal wear patterns, spectrum analysis allows for quick identification of elements that are present in a particular sample no matter what their sources.



## PARTICLE & OIL CLEANLINESS COUNTER

Code: L 1300

**Test Method:** ISO 4406

**Sample Required:** 150ml

### What is it?

This ISO code is expressed in 3 numbers: 19/17/14. Each number represents a contaminant level code for the correlating particle size ( $.4\mu\text{m}$ ,  $6\mu\text{m}$ , and  $14\mu\text{m}$ ). The code includes all particles of the specified size and larger.

### Why do we use it?

The icountOS (IOS) is an innovative solution to the challenge of measuring the quality of hydraulic oils and hydrocarbon fuels in many different applications.



## DENSITY

Code: L 1400

**Test Method:** ASTM D4052, ISO 15212-1

**Sample Required:** 100ml

### What is it?

The density of a substance is the relationship between the mass of the substance and how much space it takes up (volume). A common term used in conjunction with density is specific gravity, which is the relationship of density to water.

### Why do we use it?

The term "Specific Gravity" (SG) is used to define the weight or density of a liquid at a specific temperature.





# OIL GUIDE

## WHICH OIL IS RIGHT FOR YOU?



### ILSAC STANDARD FOR PASSENGER CAR ENGINE OILS

NAME	STATUS	SERVICE
GF-6	LATEST	Introduced in May 2020 GF-6 is the newest ILSAC engine oil performance standard aimed at improving fuel economy and enhancing engine capabilities for passenger cars. This new standard will replace the current ILSAC GF-5 standard. ILSAC GF-6A is backwards compatible with current engines requiring GF-5. ILSAC GF-6B can only be claimed in SAE 0W-16 viscosity grade oils and will only be suitable for engines designed for this grade.
GF-5	CURRENT	Introduced in October 2010 for 2011 and older vehicles, designed to provide improved high temperature deposit protection for pistons and turbochargers, more stringent sludge control, improved fuel economy, enhanced emission control system compatibility, seal compatibility, and protection of engines operating on ethanol-containing fuels up to E85.
GF-4	OBSELETE	Valid until September 30, 2011. Use GF-5 where GF-4 is recommended.

### GASOLINE ENGINES (FOLLOW YOUR VEHICLE MANUFACTURER'S RECOMMENDATION ON OIL PERFORMANCE LEVEL)

NAME	STATUS	SERVICE
SP	LATEST	Introduced in May 2020 to address timing chain protection, LSPI protection, wear protection and deposit formation. It is fully backwards compatible with previous API specifications that include SN Plus, SN, SM and SL. API SP is the foundation for the ILSAC GF-6 specification but does not include fuel economy. API SP is available for different viscosity grades
SN	CURRENT	Introduced in October 2010 for 2011 and older vehicles, designed to provide improved high temperature deposit protection for pistons, more stringent sludge control, and seal compatibility. API SN with Resource Conserving matches ILSAC GF-5 by combining API SN performance with improved fuel economy, turbocharger protection, emission control system compatibility, and protection of engines operating on ethanol-containing fuels up to E85.
SM	CURRENT	For 2010 and older automotive engines.
SL	CURRENT	For 2004 and older automotive engines.
SJ	CURRENT	For 2001 and older automotive engines.
SH	OBSELETE	
SG	OBSELETE	

#### AMERICAN PETROLEUM INSTITUTE - ENGINE OIL LICENSING AND CERTIFICATION SYSTEM

1220 L Street, NW - Washington, DC 20005-4070 - USA - Sales: 713-964-2662 - Service: 202-682-8516 - Fax: 202-962-4739 - Email: eolcs@api.org - www.api.org/eolcs  
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### DIESEL ENGINES (FOLLOW YOUR VEHICLE MANUFACTURER'S RECOMMENDATION ON OIL PERFORMANCE LEVEL)

NAME	STATUS	SERVICE
FA-4	CURRENT	API Service Category FA-4 describes certain XW-30 oils specifically formulated for use in select high-speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway greenhouse gas (GHG) emission standards. These oils are formulated for use in on-highway applications with diesel fuel sulphur content up to 15 ppm (0.0015% by weight). Refer to individual engine manufacturer recommendations regarding compatibility with API FA-4 oils. These oils are blended to a high temperature high shear (HTHS) viscosity range of 2.9cP-3.2cP to assist in reducing GHG emissions. API FA-4 oils are not interchangeable or backward compatible with API CK-4, CJ-4, CI-4 with CI-4 PLUS, CI-4, and CH-4 oils. Refer to engine manufacturer recommendations to determine if API FA-4 oils are suitable for use.
CK-4	CURRENT	API Service Category CK-4 describes oils for use in high-speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. These oils are formulated for use in all applications with diesel fuels ranging in sulphur content up to 500 ppm (0.05% by weight). However, the use of these oils with greater than 15 ppm (0.0015% by weight) sulphur fuel may impact exhaust aftertreatment system durability and/or oil drain interval.
CJ-4	CURRENT	For high-speed four-stroke cycle diesel engines designed to meet 2010 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. These oils are formulated for use in all applications with diesel fuels ranging in sulfur content up to 500 ppm (0.05% by weight). However, the use of these oils with greater than 15 ppm (0.0015% by weight) sulfur fuel may impact exhaust after treatment system durability and/or drain interval. CJ-4 oils are especially effective at sustaining emission control system durability where particulate filters and other advanced after treatment systems are used. Optimum protection is provided for control of catalyst poisoning, particulate filter blocking, engine wear, piston deposits, low and high-temperature stability, soot handling properties, oxidative thickening, foaming, and viscosity loss due to shear. API CJ-4 oils exceed the performance criteria of API CI-4 with CI-4 PLUS, CI-4, CH-4, CG-4, and CF-4, and can effectively lubricate engines calling for those API Service Categories. When using CJ-4 oil with higher than 15 ppm sulfur fuel, consult the engine manufacturer for service interval.
CI-4	CURRENT	Introduced in 2002. For high-speed, four-stroke engines designed to meet 2004 exhaust emission standards implemented in 2002. CI-4 oils are formulated to sustain engine durability where exhaust gas recirculation (EGR) is used and are intended for use with diesel fuels ranging in sulfur content up to 0.5% weight. Can be used in place of CD, CE, CF-4, CG-4, and CH-4 oils. Some CI-4 oils may also qualify for the CI-4 PLUS designation.
CH-4	CURRENT	Introduced in 1998. For high-speed, four-stroke engines designed to meet 1998 exhaust emission standards CH-4 oils are specifically compounded for use with diesel fuels ranging in sulfur content up to 0.5% weight. Can be used in place of CD, CE, CF-4 and CG-4 oils.
CF-4	OBSELETE	Introduced in 1990. For high-speed, four-stroke, naturally aspirated and turbocharged engines. Can be used in place of CD and CE oils
CG-4	OBSELETE	Introduced in 1995. For severe duty, high-speed, four-stroke engines using fuel with less than 0.5% weight sulfur. CG-4 oils are required for engines meeting 1994 emission standards. Can be used in place of CD, CE and CF-4 oils.

# OIL GUIDE

## WHICH OIL IS RIGHT FOR YOU?



### PERFORMANCE CLASSIFICATION GEAR OIL

GRADE	TYPE	APPLICATION
GL-1	Straight Mineral Oil	Truck manual transmissions
GL-2	Usually contains fatty materials	Worm gear drives, industrial gear oils
GL-3	Contains mild EP additives	Manual Transmission and spiral bevel final drives
GL-4	Equivalent to obsolete Mil-L-2105 specification, usually satisfied with 50% of GL-5 additive level	Manual Transmissions, and spiral bevel and hypoid gears in moderate service
GL-5	Virtually equivalent to present Mil-L-2105D, Primary field service recommendation of most passenger cars.	Moderate and severe service in hypoid and other types of gears. May also be used in manual transmissions car and truck builders worldwide

### VISCOSITY GRADE : SAE-ENGINE OIL

SAE J300 Nov. 2007

(SAE : Society of Automotive Engineers)

SAE Viscosity Grade	Low Temp Cranking Vis, Max at Temp, cP at °C	Low Temp Pumping Vis, Max with no yield stress at Temp. cP at °C	High Temp cSt at 100°C Min	High Temp cSt at 100°C Max	High Temp High Shear Vis. At 150°C. cP
0W	6,200 at - 35	60,000 at - 40	3.8	-	-
5W	6,600 at - 30	60,000 at - 35	3.8	-	-
10W	7,000 at - 25	60,000 at - 30	4.1	-	-
15W	7,000 at - 20	60,000 at - 25	5.6	-	-
20W	9,500 at - 15	60,000 at - 20	5.6	-	-
25W	13,000 at - 10	60,000 at - 15	9.3	-	-
20	-	-	5.6	< 9.3	2.6
30	-	-	9.3	< 12.5	2.9
40	-	-	12.5	< 16.3	3.5 / 3.7
50	-	-	16.3	< 21.9	3.7
60	-	-	21.9	< 26.1	3.7

5W-30 is satisfied with the specification of 5W and 30 simultaneously

### VISCOSITY GRADE : SAE-GEAR OIL

(SAE J306 OCT-91)

SAE Viscosity Grade	Maximum Temperature for Viscosity of 150,000cP	Viscosity at 100°C. cSt Min	Viscosity at 100°C. cSt Max
70W	-55	4.1	-
75W	-40	4.1	-
80W	-26	7.0	-
85W	-12	11.0	-
80	-	7.0	11.0
85	-	11.0	13.0
90	-	13.5	< 24.0
140	-	24.0	< 41.0
250	-	41.0	-

Multigrade : 75W-85W, 80W-90, 85W-140 etc.

### VISCOSITY GRADE : ISO-INDUSTRIAL OIL

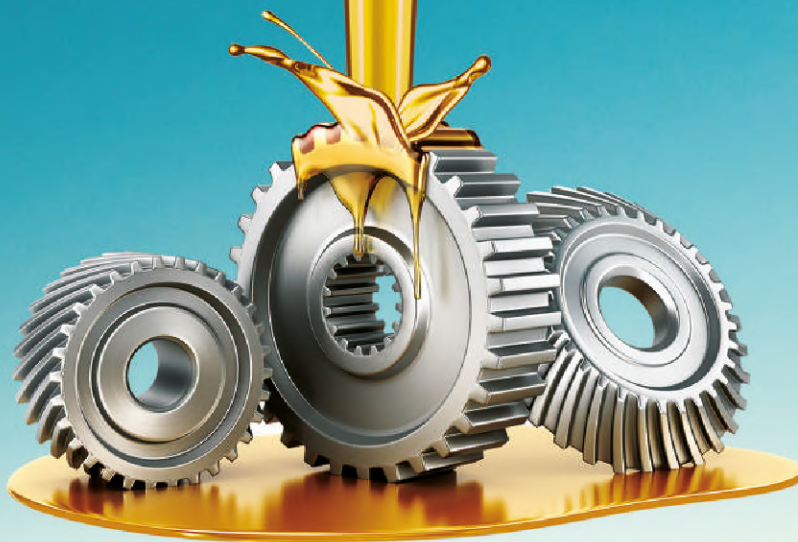
(ISO : INTERNATIONAL ORGANIZATION FOR STANDARDIZATION)

ISO Viscosity Grade	Viscosity at 40°C. cSt Min. (-10%)	Viscosity at 40°C. cSt Max. (+10%)
32	28.8	32.5
46	41.4	50.6
68	61.2	74.8
100	90.0	110
150	135.0	165
220	198.0	240
~	~	~
1500	1350.0	1650





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