



COOLANT LLO

Code (Green): 6035

Code (Red): 6036

Code (Blue): 6037

Date: 12-02-2018

DESCRIPTION

COOLANT LLO is a premium quality, organic, long life anti boil/anti-freeze coolant concentrate. COOLANT LLO 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.

COOLANT LLO contains 90% monoethylene glycol and a double inhibitor package ensuring ultimate corrosion protection and extended service life. Anti boil and anti freeze protection is equally afforded with a substantially higher rust and corrosion protection than competitor products. It is the ultimate in up to date coolant technology.

COOLANT LLO protects all metals found in cooling systems and gives excellent protection against cavitation's erosion and wet-sleeve liner pitting. It significantly increases the operating life of water pumps and exceeds corrosion performance levels required to meet Australian Standard AS2108.1-2004 and numerous performance specifications of OEM's including Ford & GMH. This coolant has been independently verified to all relevant ASTM's for automotive and heavy duty diesel use.

Provides maximum protection against 'hot spot' corrosion, common in aluminium cylinder heads.

COOLANT LLO 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. (* at 50/50 dilution ratio)

Has a proven record over many years with marine engines, mining equipment, taxi fleets, government departments, bus companies and several large fleet truck companies.

TYPICAL PROPERTIES

Appearance:	Mobile Liquid (Available in Green, Red or Blue)
pH (50/50 vol/vol):	7.7 – 8.6
Glycol by Weight (gm/L):	1003.5
Density:	1.1103 kg/L (Concentrate)
Freezing Point:	-36.2°C (50% by vol)
Boiling Point:	108.2°C (50% by vol) <i>(at atmospheric conditions, boiling point up to 130°C with 105 kPa radiator cap)</i>
Reserve Alkalinity (mL):	4.6
Hazard Class:	Hazardous Substance
DG Class:	Non Dangerous Goods
Glassware Corrosion Test:	Pass (ASTM D-1384)
Aluminium Corrosion Test:	Pass (ASTM D-4340)
Water Pump Cavitation Test:	Pass (ASTM D-2809)
Foaming Tendencies Test:	Pass (ASTM D-1881)
Cummins Anti Scale Test:	Pass (per AES 14603)

TRITECH LUBRICANTS AUSTRALASIA

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TEST RESULTS

ASTM D 1384 – GLASSWARE CORROSION TEST

<u>Metal</u>	<u>Allowable Weight Loss</u>	<u>Typical Weight Loss</u>
Copper	10mg / coupon	0.00
Solder	30mg / coupon	0.05
Brass	10mg / coupon	0.01
Steel	10mg / coupon	0.00
Cats Iron	0.03	
Aluminium	0.14	

ASTM D 4340 – ALUMINIUM HEAT REJECTION TEST

<u>Allowable Weight Loss</u>	<u>Typical Result</u>
1.0mg / cm ² / week	-0.01

ASTM D2809 – CAVITATION EROSION CORROSION

<u>Rating (minimum)</u>	<u>HDD Coolant</u>
8	8

SPECIFICATIONS

AFNOR NFR 15-601	Hyundai	SAE J 1034 and JASO M 324
AS 2108.1 : 2004 Type A	Isuzu	Subaru
ASTM D3306, D4645, D4985	IVECO	Toyota K2601G - 1G
BMW N 600 69.0	Japanese JIS K 2234	Volkswagen
British Leyland	Jenbacher	Volvo (spec. No. 1286083)
BS 6580	KIA	Waukesha 4-1974D
Caterpillar 1 EO 535	Komatsu KES 07.892	Meets the phosphate-free requirements of European Manufacturers.
Cummins 3666132	Liebherr MD 1-36-130	
DAF 742002/BTPS 606A/DCEA 615	MAN 324 Type SNF	
Ford ESE FM 97B18-C	Mazda MES MN 1210	
Ford ESE M 978B4H-A	Mercedes Benz MB-Approval 325.3	Meets the silicate-free requirements of Japanese Manufacturers.
Ford ESE M 99B166-C	Mitsubishi	
GM 1825 M	Nissan NES 5059 LLC	
GM 1899 M	Saab FSD 8074	
GM 6277 M	Saab Scania 6901	

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