## **Product Information:**

# ULTRALIFE MAX LONG LIFE ORGANIC ACID TECHNOLOGY ANTIFREEZE COOLANT



## **Description**

Ultralife MAX is a heavy duty, versatile antifreeze/coolant that provides long-life corrosion protection for all engine metals, including aluminium and ferrous alloys.

The coolant has been field tested and has proven to provide the following periods of protection:

- 650,000 km (ca. 8,000 hours) in truck & bus-application or
- 250,000 km (ca. 2,000 hours) for passenger cars or
- 32,000 hours (or 6 years) for stationary engines.

It is recommended to change the coolant every five years or when above mileages or operating times are reached, whichever comes first.

Ultralife MAX provides long-life protection against all forms of *corrosion* by the use of optimised and patented organic corrosion inhibitors. Excellent and lasting high temperature corrosion protection is provided for the aluminium heat transfer surfaces contained in modern engines. Furthermore, Ultralife MAX offers excellent cavitation protection.

<b>Features</b>	and	Ben	efits
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☐ Extended life	
☐ Improved heat transfer	
$\Box$ Reduces repairs to thermostat, radiator and water pump	
☐ Improved hard water stability, absence of silicates and phosphates	
☐ Save time and money maintenance-free coolant	
$\Box$ Suitable for mixed fleets, one coolant for automotive and heavy duty applic	cations
$\Box$ Environmentally friendly by using carboxylic additives	

#### **Applications**

Ultralife MAX may be used with confidence in engines manufactured from cast iron, aluminium or combinations of the two metals, and in cooling systems made of aluminium or copper alloys.

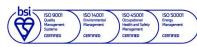
Solution % Vol.	Freezing Point °C
33	-20
50	-40

(For guidance purposes. Slight variations may occur from batch to batch)













#### **Performance Levels**

ASTM D3306, D4656, D4985, D6210

BS6580

JIS K2234-2006 Class II: LLC (Japanese Standard)

**SAE | 1034** 

KS M 2142 (Korean Standard) Ford WSS-M97B44-D Mercedes-Benz 325.3 General Motors GM 6277M

MAN 324 type SNF Volkswagen TL 774F CNH MAT3624

Caterpillar GCM34, MWM 0199-99-2091/12

Cummins 85T8-2, IS Series u N14, CES 14603, CES 144439

MB 325.3, 326.3 Detroit DFS93K217 Deutz DQC CB-14 Fiat / Lancia 9,55513

GE Jenbacher TA 1000-0200

GE Waukesha

Liebherr MDI-36-130

Mahle Behr

Mazda MEZ MN 121D Paccar DAF 74002

Paccar Leyland Trucks DW03245403 Renault Nissan 41-01-001/- -S Type D Rolls Royce Power Systems MTU MTL 5048 Rolls Royce Power Systems Bergen 2.13.01

Suzuki Santana

Tata Motors JLR CMR 8229, STJLR 651.5003

Tedom Thermo King

Colour (Visual)

Van Hool

Volvo Mack 014 GS 17009

Volvo Renault Trucks 41-01-001/-, -S Type D VW TL-774 D, TL-774 F, Skoda 61-0-0257 VW MAN 324 Typ SNF, Diesel and Turbo SE VW MAN B&W AG D36 5600, B&W A/S Wartsila SACM Diesel DLP799861

Wartsila 32-9011

Yanmar

Also suitable for use in:

AGCO Fendt AGCO Valtra Aston Martin Perkins Claas

GM Chevrolet, Saturn GM Saab B 040 1065 Great Wall Motor Co. Ltd.

Hitachi Isuzu

Irisbus Karosa John Deere JDM H5

Kobelco

Komatsu 07.892 (2009) Mitsubishi Heavy Industry PSA Opel-Vauxhall GMW 3420

Volvo AB Penta

Volvo Construction / Trucks

VW Semt Pielstick

### **Physical Characteristics**

Ethylene glycol, % w/w
Other glycols, % w/w
Inhibitor content, % w/w
Water content, ASTM D1123, % w/w
Ash content, ASTM D1119, % w/w
Nitrite, amine, borate, silicate
Specific gravity, ASTM D5931, 15°C
Specific gravity, ASTM D5931, 15°C
Equilibrium boiling point, ASTM D1120, °C
Reserve alkalinity (pH 5.5), ASTM D1121

pH, ASTM D1287, 20°C

Refractive Index, ASTM D1218, 20°C

Fluorescent Orange 93 min.

93 min. 0.5 max. 5 5 1.1 typ. nil 1.116 typ. 1.113 typ. 180 typ. 6.2 typ. 8.6 typ. 1.430 typ.

Above figures based on average production values.

Part No.s: ULM020, ULM205

VISO Verification of Lubricant Specifications Auditory (TOWARM)







(TDS Ultralife MAX - 040620 Issue I)