Automotive Chemicals – Coolant Antifreeze

Version: **2011/16#8**

Valvoline™ HD Extended Life RTU

Premium Si-Organic Acid (Si-OAT) Technology Antifreeze Coolant for Heavy-Duty applications. The product is free of amines, borates and phosphates, which makes it friendlier to the environment.

HD Extended Life is an engine coolant for trucks, buses, road construction machines and industrial equipment, which fulfills the requirements of most leading heavy-duty engine manufacturers. HD Extended Life Coolant protects cooling systems against frost, corrosion and overheating for at least three years, 7.000 hours or 500.000 kilometers. The product is mixable with other coolants on basis of mono ethylene glycol, but that may shorten the long-life characteristics. It cannot be mixed with products on basis of Propylene Glycol.
HD Extended Life RTU is ready to use up to a freezing temperature of -38ºC. The product concentration is 50%. Adding water is not desirable.

The product is suitable for use in HOAT, OAT, and Si-OAT application.

OEM Approvals
Cummins 14603
Performance levels
Afnor 15-601, 1991
Association Française de Normalisation
ASTM D3306, D6210, D4985
BS 6580, 1992
Caterpillar EC-1
Cummins 14439 Registered
DAF/Leyland
Detroit Diesel 7SE 298
Deutz DQC CC-14
DTFR 29D100 (MB 326.0), DTFR 29D110 (MB 326.3), DTFR 29D120 (MB 326.5)

Performance levels
Ford WSS M97 B44-D
MAN B&W
MB 325.6
MTU MTL 5048
O-Norm V5123
Renault (Glaceol RX type D)
SAE J1034 and J814
SAE J814C, J1941
Scania
Volvo VCS

Features and Benefits

Unique formula for superior long-life protection
Long-Life protection by means of a unique formulation with heavy duty corrosion inhibitors to protect all cooling system metals and anti-scaling chemistry to prevent hard water scale and deposits. Unsurpassed protection for the cooling system against winter freezing and summertime over-heating.

Suitable for modern and older engines
HD Extended Life coolant protects modern vehicles with aluminum engines as well as older vehicles with cast-iron engines against corrosion and scaling. It will extend the life-span of the cooling system.

No mis-applications and lowers cost of operation
HD Extended Life coolant can be used for all HD engines with all materials. Therefore, less mistakes and less storage. It provides long term protection to the cooling system of the engine for at least three years, 7.000 hours or 500.000 kilometers which lowers cost of operation.

Deposit control
The formulation contains extra anti-scaling additives and corrosion inhibitors to prevent the build-up of performance limiting deposits. It can keep the cooling system working efficiently by keeping heat transfer surfaces and passages clean.

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Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals; specialty products; greases, and cooling system products.

For more information on Valvoline products, programs and services please visit **https://www.valvolineglobal.com/en-eur/** or **http://pisheets.valvolineglobal.com**

Typical properties
Typical property characteristics are based on current production. Whilst future production will conform to Valvoline specifications, variations in these characteristics may occur.

HD Extended Life RTU	
Ready To Use	
Appearance	Liquid
Colour	Red
Boiling point, ºC ASTM D-1120	128 min.*
Flash point, ºC, PMCC ASTM D-93	121
pH value ASTM D-1287	10,5
Density @ 20°C, g/cm³ ASTM D-1122	1,068 – 1,079
Hard water stability	Stable

*** Boiling Point shown using conventional 15 psi Radiator cap.**

Freezing Temperature:
Ready to use product: -38ºC

This information only applies to products manufactured in the following location(s): Europe

Health & Safety
This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet **http://sds.valvolineglobal.com**

Protect the environment
Take used product to an authorized collection point. Comply with local regulations. Do not discharge into drains, soil or water.

Storage
We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

Replaces – 2011/16#7

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