SHELL COOLANT

SHELL COOLANT LONGLIFE PLUS, SHELL COOLANT LONGLIFE AND SHELL COOLANT EXTRA

Cooling system corrosion and overheating are common causes of engine failure. Overheating engines can mean more downtime in the workshop, less time spent driving and costly repairs.

SHELL COOLANT

WHY ARE COOLANTS IMPORTANT?

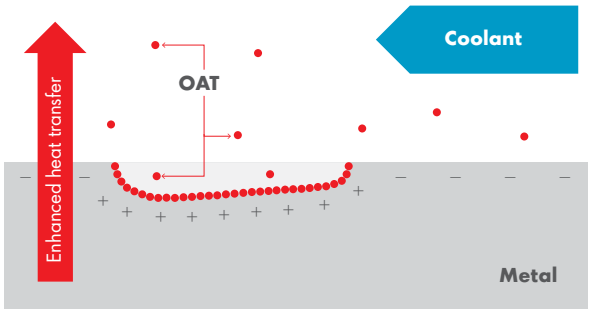
Coolants protect engines from overheating and the cooling system from damage caused by corrosion, scaling and sediment build-up. This damage can be linked to using poor-quality coolants, which can cause heat transfer problems and corrosion that may result in expensive breakdowns and parts failures.

WHY USE SHELL COOLANTS?

Shell has been providing coolants continuously for many decades. Our deep knowledge of engine fluids has helped us to retain our position as the world's number-one lubricant supplier for 14 consecutive years.* The coolants in our portfolio are formulated to exceed the extreme performance requirements of modern engines for fleets and vehicles of all shapes and sizes, from city cars to mining machines. They provide outstanding heat transfer, excellent protection and long service life to help reduce the cost of vehicle ownership.

OUTSTANDING HEAT TRANSFER

Heat transfer is a coolant's primary role. Shell coolants provide enhanced heat transfer properties through the organic additive technology (OAT) used in their formulations. With a Shell coolant, your engine is well protected against overheating.

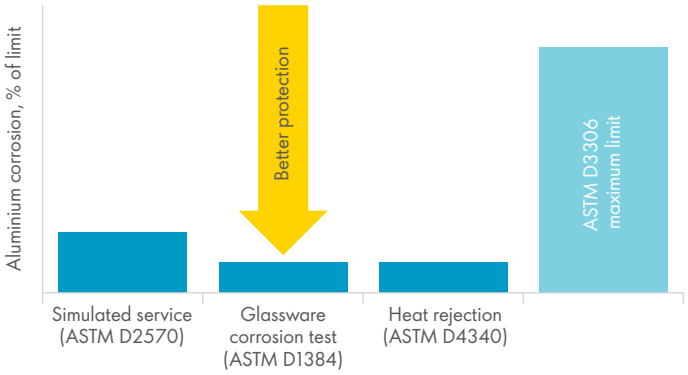


OUR DEEP KNOWLEDGE OF ENGINE FLUIDS HAS HELPED US TO RETAIN OUR POSITION AS THE WORLD'S NUMBER-ONE LUBRICANT SUPPLIER FOR 14 CONSECUTIVE YEARS.*

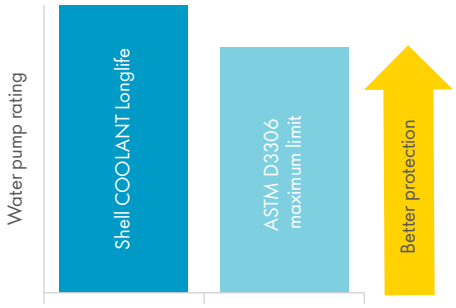
*Kline & Co. Global Lubricants: Market Analysis and Assessment (2019)

EXCELLENT PROTECTION

Shell coolants provide excellent cooling system protection against freezing and help to extend water pump life. They are formulated to protect components containing aluminium, iron, steel, copper, brass and other metals, and to prevent pitting damage to water pumps caused by cavitation and erosion.



CORROSION PROTECTION: In industry-standard tests, Shell COOLANT Longlife Plus, Shell COOLANT Longlife and Shell COOLANT Extra provide much better metals protection than the industry limits. This graph shows aluminium corrosion protection based on the average test results of these coolants; similar outstanding performance can be demonstrated for all the other metals tested.



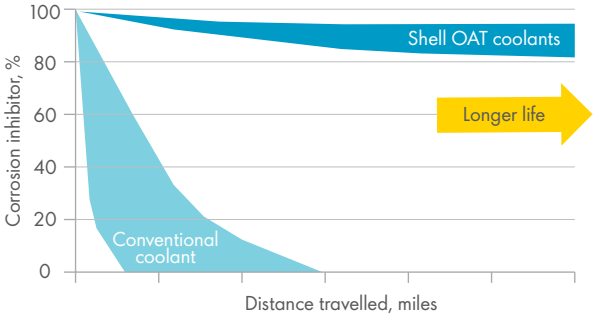
WATER PUMP PROTECTION: In the standard test (ASTM D2809), Shell COOLANT Longlife Plus, Shell COOLANT Longlife and Shell COOLANT Extra provide outstanding water pump protection against cavitation that exceeds the industry limit, based on the average test results of these coolants.

LONG SERVICE LIFE

Shell COOLANT Longlife Plus, Shell COOLANT Longlife and **Shell COOLANT Extra** use OAT to provide corrosion protection and enhanced heat transfer. As corrosion protection is provided only at the areas where it is required, the corrosion inhibitors deplete far more slowly than those in conventional coolants, thereby eliminating the need for supplemental coolant additives.

After a limited distance, nearly all of the corrosion inhibitors in conventional coolants are depleted, whereas Shell OAT coolants still have high inhibitor levels for extended service life.

The long service life and excellent protection of Shell Coolant Longlife Plus, Shell COOLANT Longlife and Shell COOLANT Extra help to reduce the need for costly maintenance, thereby keeping your car on the road and out of the workshop.



LOWER MAINTENANCE COSTS: The long service lives of typical Shell OAT coolants compare favourably with the performance of conventional coolants from field testing.

INTRODUCING THE SHELL COOLANT LONGLIFE PORTFOLIO

SPECIFICATIONS AND APPROVALS

Shell coolants meet or exceed the requirements of industry standards and equipment manufacturer specifications, including:

SHELL COOLANT LONGLIFE PLUS ASTM D3306, ASTM D6210, ASTM D4985, BS 6580, AFNOR NFR 15-601, NC 956-16, JIS K2234, SAE J1034, VW TL 774-G (G12++), Cummins CES 14603, MB-Approval 325.5/325.6 and MAN 324 Typ Si-OAT.

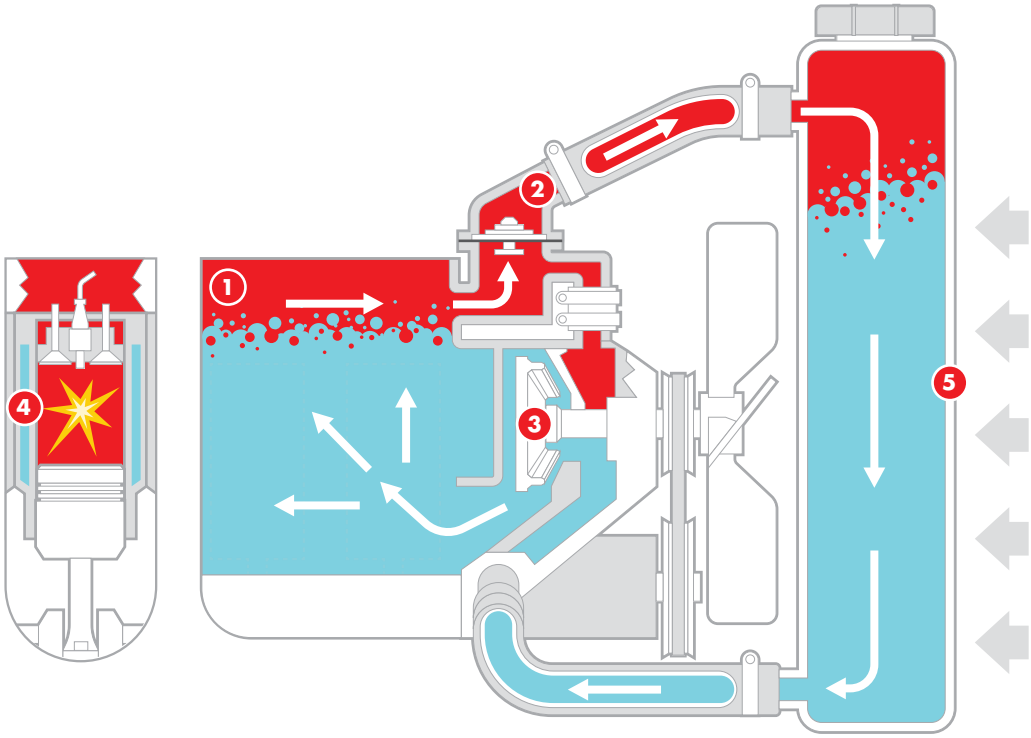
SHELL COOLANT LONGLIFE ASTM D3306, ASTM D6210, ASTM D4985, BS 6580, AFNOR NFR 15-601, NC 956-16, JIS K2234, SAE J1034, VW TL-774D/F (G12/G12+), Jaguar Land Rover STJLR 651.5003 and CMR 8229, Ford WSS-M97B44-D, MB-Approval 325.3, Renault 41-01-001/S Type D, MAN 324 Typ SNF, Saab B040 1065, Cummins CES 14603 and CES 14439, Deutz DQC CB-14, Fiat 9.55523, Liebherr MD1-36-130, Mazda MEZ MN 121D, DAF 74002, PSA GMW 3420, and Wärtsilä DLP799861 and 32-9011.

SHELL COOLANT EXTRA ASTM D3306, ASTM D4985, BS 6580, AFNOR NFR 15-601, NC 956-16, JIS K2234, SAE J1034, VW TL-774C (G11), BMW GS 94000, Iveco 18-1830, Cummins 85T8-2, Deutz DQC CA-14, MB-Approval 325.0, Fiat 9.55523, PSA GME L1301, Renault TTM VAZ 1.97.717.97, Volvo 128 6083/002 and MAN 324 Typ NF.

SHELL COOLANT ESSENTIAL
ASTM D3306, BS 6580, AFNOR NFR 15-601, JIS K2234 and SAE J1034.

WHY DOES USING A HIGH-QUALITY COOLANT MATTER?

1. Shell coolants help to prevent engine overheating, which can lead to breakdowns and costly repairs.
2. Shell coolants are compatible with elastomer seals to prevent leaking.
3. Shell coolants help to prevent water pump damage from cavitation, pitting and corrosion.



4. Shell coolants protect cylinder liners from damage caused by cavitation, corrosion and pitting, and help prevent loss of efficiency.
5. Shell coolants protect heat exchangers from damage caused by freezing, corrosion, scale and sediment, and provide effective heat transfer performance.

Find out more by visiting
www.shell.com/lubricants