



# Technical Data Sheet

## 15W-40 E9 Low SAPS (Product Code; 1225)

### Product Description

OptimOil E9 15w40 is formulated to meet the requirements of today's high performance, emission-controlled, heavy-duty diesel engines. The modern, semi synthetic formulation is especially suitable for vehicles equipped with after-treatment systems which require a low SAPS (Sulphated Ash, Phosphorus & Sulphur) engine oil.

### Application

Designed to meet and exceed the stringent technical requirements imposed on today's emission-controlled engines by the latest Euro 5 and 6 regulations. Especially recommended for vehicles which require VOLVO VDS 4.5, Renault RLD-3, CAT ECF-3, Mercedes-Benz 228.31, Cummins CES 20086, ACEA E9 and API CK-4 specifications, as well as many other heavy-duty and off-highway diesel engine manufacturers which specify a modern lubricant of this type such as Case New Holland, DAF, Deutz, Hitachi, Isuzu, JCB, John Deere, Deutz, Komatsu, Liebherr and MAN.

Note: Although not VOLVO VDS-5 approved, this product can be used where VOLVO VDS-5 specification is required, but may not impart VDS-5 fuel economy benefits and the oil drain interval should be amended accordingly.

### Outstanding Features

- Specifically formulated to meet the latest heavy-duty diesel API CK-4, ACEA E9 and Euro 6 requirements.
- Modern formulation to meet many commercial and off-highway OEM applications.
- Excellent wear protection and lubricant stability, even under severe operating conditions.
- Significant increase in piston cleanliness and reduced oil consumption compared to API CI-4 oils.
- Outstanding soot handling and oxidation control.
- Suitable for engines with or without particulate filters, as well as EGR and SCR emissions reduction systems.
- High detergent and dispersion levels.

### Typical Properties

Viscosity @ 1000C: 14.7 cSt	Specific Gravity: 0.867
Flash Point: 218C	Total Base No. (D2896): 9.5
Pour Point: -36C	Sulphated Ash, Wt (%): < 1.0

### PERFORMANCE STANDARDS



OptimOil

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Suitable for where the following specifications are required;

API CK-4, CJ-4, SN	Cummins CES 20086, 20081	Deutz DQC-III-10 LA
ACEA E9, E7	MAN M3575, M3275	Detroit Diesel DDC93K222
Volvo VDS 4.5- Approval	MTU Type 2.1	Detroit Diesel DDC93K218
Renault RVI RLD-3- Approval	Caterpillar ECF-3	Ford M2C171-F, M2C171-E
Mack EOS-4.5- Approval	JASO DH-2	Mercedes-Benz 228.31