

ARECA FUNARIA S8500**Semi-synthetic engine oil 10W-40 E8, E11 HD**

Semi-synthetic engine oil dedicated to heavy-duty engines and public works appliances designed to meet "EURO VI" emissions requirements.

It will provide excellent protection against wear and maintain optimal engine cleanliness.

Its additivation with low content of sulfated ash, phosphorus and sulfur ("Low-SAPS" technology) will guarantee longevity of exhaust gas post-treatment systems.

ARECA FUNARIA S8500 has been specially designed to meet requirements of many manufacturers (see performance level below).

It will also be suitable for vehicles for which ACEA E7, E8, E11 or API CK-4 level is recommended.

Specifications

- ✓ ACEA E7, E8, E11
- ✓ API CK-4
- ✓ JASO DH-2
- ✓ Daimler DTFR 15C120 (MB228.52)
- ✓ Daimler DTFR 15C110 (MB228.51)
- ✓ Daimler DTFR 15C100 (MB228.31)
- ✓ Daimler DTFR 13D110 (MB 235.28)
- ✓ MAN M3477, M3775
- ✓ MTU Type 3.1
- ✓ Volvo VDS-4.5
- ✓ Renault RLD-3
- ✓ Mack EOS-4.5
- ✓ Cummins CES 20086
- ✓ Deutz DQC IV-18 LA
- ✓ Detroit Diesel DDC 93k222
- ✓ Caterpillar ECF-3
- ✓ Voith Class B

Physicochemical Characteristics

| Characteristics | Method | Unit | Typical value | Min. | Max. |
|-----------------------------|-------------|----------|---------------|------|-------|
| Viscosity grade | SAE J300 | - | 10W-40 | - | - |
| Kinematic viscosity @ 100°C | ASTM D 7042 | cSt | 14.5 | 13.9 | 16.3 |
| Kinematic viscosity @ 40°C | ASTM D 7042 | cSt | 99 | - | - |
| Viscosity index | ASTM D 2270 | - | 151 | - | - |
| CCS viscosity @ -25°C | ASTM D 5293 | mPa.s | 6500 | - | 7000 |
| HTHS viscosity @ 150°C | ASTM D 4683 | mPa.s | 4.0 | 3.5 | - |
| MRV viscosity @ -30°C | ASTM D 4684 | mPa.s | 30000 | - | 60000 |
| Density @ 20°C | ASTM D 7042 | - | 0.859 | - | - |
| Pour point | ASTM D 97 | °C | -46 | - | -27 |
| Flash point | ASTM D 92 | °C | 224 | 215 | - |
| T.B.N. | ASTM D 2896 | mg KOH/g | 10.8 | 9.8 | 11.2 |
| Sulfated ash | ASTM D 874 | % mass | 1.0 | - | 1.0 |
| Spectrometric analysis | ICP | ppm | | | |
| Phosphorus | | | 760 | - | 800 |
| Zinc | | | 820 | 350 | - |
| Calcium | | | 1450 | - | 1500 |
| Magnesium | | | 720 | - | - |
| Sulfur | | | 2750 | - | 3000 |
| NOACK volatility | ASTM D 5800 | % mass | 10.4 | - | 12.0 |
| Colour | ASTM D 1500 | - | 3.5 | - | 5.0 |

Security

See Safety Data Sheet