VALCO PL-PROTECT 4.8

Engine oil 15W-40 HD

Engine oil for heavy duty vehicles and public works appliances.

Its formulation has been studied to offer optimal anti-wear properties and detergency to keep engine cleanliness and ensure its longevity.

VALCO PL-PROTECT 4.8 is particularly suitable when ACEA E7 or API CI-4 performance level is recommended.

Always refer to the manufacturer's recommendations before using the product.

Specifications

- ✓ ACEA E7
- ✓ API CI-4 / SL
- ✓ DTFR 15B110 (MB 228.3)
- ✓ MAN 3275
- ✓ Volvo VDS-3
- ✓ Deutz DQC-III
- ✓ MTU Type 2.0
- ✓ Mack EO-N
- ✓ Cummins CES 20077 / 20078
- ✓ Caterpillar ECF-1a / ECF-2
- ✓ Renault RLD-2
- ✓ JASO DH-1
- ✓ Global DHD-1
- ✓ DDC 93k215

Physicochemical Characteristics

Characteristics	Method	Unit	Typical value	Min.	Max.
Viscosity grade	SAE J300	-	15W-40	-	-
Kinematic viscosity @ 100°C	ASTM D 7042	cSt	14.1	13.9	16.3
Kinematic viscosity @ 40°C	ASTM D 7042	cSt	97	-	-
Viscosity index	ASTM D 2270	-	149	-	-
CCS viscosity @ -20°C	ASTM D 5293	mPa.s	4500	-	7000
HTHS viscosity @ 150°C	ASTM D 4683	mPa.s	3.95	3.7	-
MRV viscosity @ -25°C	ASTM D 4684	mPa.s	24000	-	60000
Density @ 20°C	ASTM D 7042	-	0.867	-	-
Pour point	ASTM D 97	°C	-42	-	-27
Flash point	ASTM D 92	°C	222	215	-
T.B.N.	ASTM D 2896	mg KOH/g	11.1	10.2	11.9
Sulphated ash	ASTM D 874	% mass	1.4	1.0	1.5
Spectrometric analysis Phosphorus Zinc Calcium	ICP	ppm	 990 1100 3600	 600 800 -	 1200 - -
NOACK volatility	ASTM D 5800	% mass	9.5	-	12.0
Colour	ASTM D 1500	-	3.5	-	4.5

Security

See Safety Data Sheet