

HERCULES PREMIUM LA 10W-40, 15W-40

**FULLY SYNTHETIC
SUPER HIGH PERFORMANCE
DIESEL ENGINE OIL (SHPD)**

BULWARK HERCULES PREMIUM LA oils are synthetic blend, Super High-Performance Diesel engine oils (SHPD) designed to meet latest ACEA requirements and more challenging OEM specifications for Euro 6 commercial diesel vehicles equipped with EGR, SCR & NOx reduction systems and with diesel particulate filters (DPF).

BULWARK HERCULES PREMIUM LA 10W-40 and 15W-40 are manufactured using optimized combination of synthetic base oils with premium additives to provide proven & reliable long drain interval and all year-round performance. Recommended for use with Ultra Low Sulphur Diesel (ULSD) in turbo-charged high speed 4-stroke diesel engines deployed in off-highway and on-highway applications including the mining & construction industry, where ACEA E9 & API CJ-4 oils are specified.

PERFORMANCE LEVEL*

- API CJ-4/SN
- ACEA E9-16
- MB 228.31
- MTU Type 2.1
- CAT ECF-3
- Cummins CES 20081
- Volvo VDS 4, Mack EO -O PP &, Renault RLD-3
- Detroit DDC93K218
- Deutz DQC III-10 LA; Ford WSS-M2C171-F1

KEY BENEFITS

- Lower maintenance costs from minimized piston crown deposits.
- Low viscosity ensures improved oil circulation and reduced friction at start-up and maximum lubricity at higher operating temperatures.
- Excellent oxidation stability & BN retention ensure negligible oil degradation and improves oil service life in turn providing Longer drain intervals.
- Lower oil consumption due to high shear stable VI improvers and low volatile synthetic base fluids.

TYPICAL CHARACTERISTICS**

Properties	Test Methods	10W-40	15W-40
Density @ 29.5°C, Kg/m3	ASTM D4052	0.862	0.871
Kinematic Viscosity @ 100°C cSt	ASTM D7042	14.12	14.52
Viscosity Index	ASTM D2270	159	144
Cold Cranking Viscosity, mPa-s	ASTM D5293	4080 at -25°C	5810 at -20°C
Borderline Pumping Viscosity, mPa-s	ASTM D4684	24,800 at -30°C	27,800 at -25°C
Sulphated Ash, %	ASTM D874	0.72	0.72
Flash Point, COC, °C	ASTM D92	246	242
Foam Stability	ASTM D892		
Seq I		0/0	0/0
Seq II		0/0	0/0
Seq III		0/0	0/0
Pour Point, °C	ASTM D97	-42	-39
Total Base Number, mg KOH/g	ASTM D2896B	7.85	7.85

* Performance levels indicated may include licensed API specs or specs that our products meet or exceed

** Typical Characteristics are typical values. Minor variations within the permissible tolerance limits maybe expected on the final product.

STORAGE

All packages should be stored under cover. Where outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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Bulwark International UK Ltd, 34 Woodland Road, Sawston, CB22 3DU, United Kingdom. info@bulwarkauto.co.uk