

# HERCULES MULTI 15W-40, 20W-50

## MULTI-GRADE MINERAL DIESEL ENGINE OIL

**BULWARK HERCULES MULTI** series oils are superior multi-grade mineral diesel engine oils specially designed to lubricate a wide range of 4-stroke naturally aspirated and turbocharged diesel engines requiring API CF-4 or lower performance requirements usually older fleet of light, medium and heavy-duty commercial vehicles.

**BULWARK HERCULES MULTI 15W-40 and 20W-50** are manufactured using superior hydrocracked mineral base stocks and high-performance additives to provide excellent anti-oxidation, anti-wear properties and reliable all year-round performance. Recommended for use in older generation diesel engines which are widely used on road transport and off-road equipment.

### PERFORMANCE LEVEL\*

- API CF-4, CF
- ACEA E2-96
- MB 228.1
- MAN 270; MTU Type 1 (15W-40)

### KEY BENEFITS

- High anti-oxidation and dispersant properties
- Reduced oil consumption, wear and noise level (in older high mileage and worn engines) during severe operation conditions.
- Excellent protection against wear & corrosion.

### TYPICAL CHARACTERISTICS\*\*

Properties	Test Methods	15W-40	20W-50
Density @ 29.5°C, Kg/m <sup>3</sup>	ASTM D4052	0.889	0.892
Kinematic Viscosity @ 100°C cSt	ASTM D7042	14.72	18.90
Viscosity Index	ASTM D2270	136	127
Cold Cranking Viscosity, mPa-s	ASTM D5293	6400 at -20°C	8850 at -15°C
Borderline Pumping Viscosity, mPa-s	ASTM D4684	27,800 at -25°C	42,800 at -20°C
Sulphated Ash, %	ASTM D874	1.30	1.30
Flash Point, COC, °C	ASTM D92	236	252
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	-36	-27
Total Base Number, mg KOH/g	ASTM D2896B	10.1	10.1

\* 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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