

## GALAX SUPER 3 SAE 20W-20

### 1. DESCRIPTION/APPLICATION

**GALAX SUPER 3 SAE 20W-20** is a multigrade mineral engine oil, intended for lubricating diesel engines, naturally aspirated or turbocharged, and classically constructed gasoline engines of commercial vehicles, agricultural and construction machinery and mining equipment.

Advantages of *GALAX SUPER 3 SAE 20W-20*:

- Reliable engine operation at high loads and temperatures
- Protects engine from wear, corrosion and deposits
- High TBN secures longer drain periods

### 2. PRODUCT QUALITY

| Specifications and standards | Quality level |      |
|------------------------------|---------------|------|
| SAE J300                     | 20W-20        | pass |
| API                          | CF-4/CF/SJ    | pass |
| ACEA                         | E2            | pass |
| OEM                          |               |      |
| Daimler                      | MB 228.0      | pass |
| MAN                          | 270           | pass |

### 3. PACKAGING AND DELIVERY

The product is delivered in original packaging. Each shipment is accompanied by a quality certificate.  
**Plastic canisters: 10L; Metal drums: 200L; IBC containers: 1000L; Bulk: yes**

#### 4. TYPICAL CHARACTERISTICS

| Characteristic<br>SAE grade           | Test method | Typical value<br>20W-20    |
|---------------------------------------|-------------|----------------------------|
| Appearance                            | Visual      | Transparent viscous liquid |
| Viscosity (100°C), mm <sup>2</sup> /s | ASTM D445   | 8.3                        |
| Viscosity index                       | ASTM D2270  | 110                        |
| Flash point, °C                       | ASTM D92    | 220                        |
| Pour point, °C                        | ASTM D97    | -25                        |
| Total Base Number mgKOH/g             | ASTM D 2896 | 11                         |

#### 5. STORAGE AND HANDLING

##### Storage

The product should be stored in dry, cool, well ventilated places, protected from direct atmospheric influence. Avoid heat sources and strong corrosion agents.

Weather conditions may damage labels on packaging. Excessive changes in ambient temperature may cause leakage. As the content expands and shrinks, water may be entrained through caps, although the drums are sealed.

If stored in an open area we recommend the following precautions:

- Lay the drums so that the caps are at 9:00 and 3:00 o'clock position so moisture penetration and seal drying is minimized.
- If the drums are vertically positioned, they should be slightly tilted to avoid water accumulation on the upper surface.
- Caps must be sealed tight. Before removing the caps, upper drum surface should be dried and cleaned to avoid lubricant pollution.
- Large tanks should preferably be used indoors with an outside breather line.

##### Storage temperature:

Ambient. Exposure to temperatures above 35°C should be avoided.

##### Recommended materials for storing:

Metal drums or polyethylene canisters.

##### Materials that are not recommended:

Do not use packaging that contains zinc.

##### Other information:

Polyethylene packaging material should not be exposed to high temperatures because of possible risk of distortion.

