



Previous Name: Shell Albida Grease MDX, Retinax MDX

# Shell Gadus S3 V460XD

Premium multipurpose heavy duty grease with extra solids

- Heavy Duty Protection
- High Temperature
- Lithium Complex

Shell Gadus S3 V460XD Greases are premium heavy-duty greases designed for use in a wide range of industrial and mining applications.

They are based on a high viscosity index mineral oil and lithium complex soap thickener. They contains selected additives to offer excellent high temperature oxidation performance and enhanced extreme pressure, antiwear and anti-corrosion properties. They also contains molybdenum disulphide to provide additional resistance to shock loading.

## Applications

Shell Gadus S3 V460XD Greases are used for the lubrication of shock loaded, heavy-duty slow moving bearings and non-bearing applications such as those found in large mobile mining equipment. Shell Gadus S3 V460XD greases available as NLGI 2 grease and also as an NLGI 1 version where a more pumpable grease is required.

## Performance Features

- **Wide Operating Temperature Range.**  
Ball and rolling element bearings operating continuously at temperatures between -15°C and +150°C.
- **Prolonged Grease Service Life.**  
Enhanced oxidation resistance prolongs grease life at higher temperatures, allowing extended re-greasing intervals.
- **Excellent Mechanical Stability.**  
Maintains consistency over long periods even in the most severe conditions.
- **For Shock Loaded Conditions**  
Resists break down, softening and subsequent leakage under shock loads.
- **Enhance Extreme Pressure and Antiwear Properties.**

Rig tests confirm E.P. additives in Shell Gadus S3 V460XD prolong the life of bearings subject to heavy loads and shock loads.

- **Low Water Wash-Out.**  
Good water resistant properties.
- **Effective Corrosions Protection.**  
Ensures components/bearings do not fail due to corrosion.

## Approvals and Recommendations

Shell Gadus S3 V460XD meets following OEM specifications :

- Komatsu
- Komatsu Trucks
- Terex
- Liebherr Trucks
- P&H
- BE (certified)
- Caterpillar (exceeds specification)

## Health & Safety

Shell Gadus S3 V460XD Greases are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet.

**Advice**

Advice on applications not shown on this leaflet may be obtained from your Shell Representative.

**Typical Physical Characteristics**

Shell Gadus S3 V460XD		
<b>NLGI Consistency</b>	1	2
<b>Worked Penetration @ 25°C</b> ASTM D17 (dmm)	310-340	265-295
<b>Colour</b>	Black	Black
<b>Soap Type</b>	Lithium Complex	Lithium Complex
<b>Base Oil (type)</b>	Mineral	Mineral
<b>Kinematic Viscosity</b> @ 40°C mm <sup>2</sup> /s 100°C mm <sup>2</sup> /s (ASTM D 445)	460 31	460 31
<b>4 Ball EP Test Kg</b> (IP 239)	620	620
<b>Dropping Point °C</b> (IP 132)	250	250
<b>Molybdenum Disulphide content %</b>	5	5
<b>Molybdenum Disulphide Particle Size (microns)</b>	< 5	< 5

**Typical Physical Characteristics**

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.