



Previous Names: Shell Albida Grease HDX 1, Shell Retinax CMX 1

# Shell Gadus S3 V460D 1

- Heavy Duty Protection
- High Temperature
- Lithium Complex

*Premium multi-purpose heavy duty grease with solids*

Shell Gadus S3 V460D greases are high performance High Temperature greases for slow moving heavily loaded large bearings subject to shock loads. They are based on High viscosity index mineral oil and a Lithium Complex soap thickener. Apart from containing the latest additives to ensure excellent High Temperature, anti-corrosion & anti-oxidation performance, They also contain MOS22 to ensure the grease can handle shock loads.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **High base oil viscosity to provide excellent load carrying performance**  
Meets the recommended base oil viscosity recommended by leading OEMs.
- **Excellent mechanical stability even under vibrating conditions**  
Consistency retained over long periods, even in conditions of severe vibration.
- **Enhanced extreme pressure properties & resistant to shock loads**  
Excellent load-carrying performance enhanced by the presence of MOS22.
- **Excellent water resistance**  
Ensures lasting protection even in the presence of large amounts of water.
- **Effective corrosion protection**  
Ensures components/bearings do not fail due to corrosion.
- **High dropping point**  
Resistant to high temperatures.

### Specifications, Approvals & Recommendations

Shell Gadus S3 V460D is listed by several leading OEMs:

- Komatsu Mining (Germany)
- Terex
- BE (certified)
- Dieffenbacher
- Hitachi
- Konecranes
- CMI
- Flat Products Equipment
- Pfeiffer
- Voith Paper Environmental
- Meets the requirements of the 3% MOS22 grease Caterpillar specification
- Rothe Erde.

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

### Main Applications



Shell Gadus S3 V460D greases are used for the grease lubrication of heavy-duty, slow moving bearings subject to shock loads found in the following industries:

- Mining
- Steel

## Typical physical Characteristics

| Properties               |        |       | Method    | Shell Gadus S3 V460D 1 |
|--------------------------|--------|-------|-----------|------------------------|
| NLGI Consistency         |        |       |           | 1                      |
| color                    |        |       |           | Black                  |
| Soap Type                |        |       |           | Lithium complex        |
| Base Oil Type            |        |       |           | Mineral                |
| Kinematic Viscosity      | @40°C  | cSt   | ASTM D445 | 460                    |
| Kinematic Viscosity      | @100°C | cSt   | ASTM D445 | 31                     |
| Cone Penetration, Worked | @25°C  | 0.1mm | ASTM D217 | 310-340                |
| Dropping Point           |        | °C    | IP 396    | >240                   |

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

## Health, Safety & Environment

### • Health and Safety

Shell Gadus S3 V460D grease is unlikely to present any significant health or safety hazard when properly used in the recommended Application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

### • Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

## Additional Information

Operating Temperature

-20°C to +140°C (peak 150°C)

### • Advice

Product recommendations for applications and specifications not covered here may be obtained from your Shell representative.