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< Product: GEN SET ENGINE  
Model: 3516 GEN SET ENGINE 5SJ  
Configuration: 3516 Generator Set Engine 5SJ00001-UP

## Operation and Maintenance Manual

### SR4B Generators And Control Panels

Media Number -SEBU6918-03

Publication Date -01/06/2001

Date Updated -09/10/2001

i02023749

## Bearing (Ball) - Lubricate - Generator

SMCS - 4471-086

The following ball bearings must be lubricated: no shield and single shield. Double shielded ball bearings may not require lubrication. Refer to the instructions that are located on the machine.

For ball bearings, use Caterpillar **2S-3230** Bearing Lubricant. This grease is an NLGI No. 2 Grade. There is Polyurea (a thickener) in this grease. The temperature range of Caterpillar **2S-3230** Bearing Lubricant is -29 °C (-20.2 °F) to 177 °C (350.6 °F). For extremely low temperatures, use either NLGI No. 1 Grade or NLGI No. 0 Grade.

## Lubricating Process

1. Remove either the louver assembly or the rear plate from the rear of the generator housing.
2. Remove the top grease pipe plug and remove the lower grease pipe plug.
3. Install a grease fitting in the grease pipe.
4. Grease the shielded ball bearings with **2S-3230** Bearing Lubricant (53.28 mL (1.8 ounces) to 59.20 mL (2.0 ounces)). Lubricate shielded ball bearings at 2000 hour intervals. Do not mix greases.

**Note:** Some two-bearing generators have spherical roller bearings in the front bracket and ball bearings in the rear bracket. These units should use a common **108-8611** Grease Cartridge. This grease should be used for the front bearing and the rear bearing.

5. Wipe off the excess grease. Remove the top grease fitting. Install the plug.
6. Operate the generator for one hour. This will allow the grease to expand. The expanding grease will force the excess grease from the cavity. When the excess grease is forced from the cavity, the internal pressure will be reduced. The generator should continue to operate until the grease stops purging.

7. Stop the engine. Install the plug in the bottom grease pipe. Wipe off the excess grease.
  8. Install the louver assembly or install the rear plate.
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## Operation and Maintenance Manual SR4B Generators And Control Panels

Media Number -SEBU6918-03

Publication Date -01/06/2001

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i01181601

## Bearing (Spherical Roller) - Lubricate

SMCS - 4471-086

Spherical roller bearings must be lubricated. For spherical roller bearings, use a Caterpillar **108-8611** Grease Cartridge. This grease is an NLGI No. 1.5 Grade. There is no molybdenum disulfide in this grease. There is Clay (a thickener) in this grease. At 40 °C (104.0 °F), the viscosity of the grease in a Caterpillar **108-8611** Grease Cartridge is 32 cSt. At 100 °C (212.0 °F), The viscosity is 5 cSt.

### Lubricating Process

1. Remove either the louver assembly or the rear plate from the rear of the generator housing.
2. Remove the top grease pipe plug and remove the lower grease pipe plug.
3. Install a grease fitting in the grease pipe.
4. Grease spherical roller bearings with a **108-8611** Grease Cartridge (29.6 mL (1 ounce)). Spherical roller bearings should be lubricated at 1000 hour intervals. Do not mix greases.

**Note:** Some two-bearing generators have spherical roller bearings in the front bracket and ball bearings in the rear bracket. These units should use common **108-8611** Grease Cartridges. This grease should be used for the front bearing and the rear bearing.

5. Wipe off the excess grease. Remove the top grease fitting. Install the plug.
6. Operate the generator for one hour. This will allow the grease to expand. The expanding grease will force the excess grease from the cavity. When the excess grease is forced from the cavity, the internal pressure will be reduced. The generator should continue to operate until the grease stops purging.
7. Stop the engine. Install the plug in the bottom grease pipe. Wipe off the excess grease.
8. Install the louver assembly or install the rear plate.

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