



CANRIG DRILLING TECHNOLOGY LTD

DATE: June 1, 1999

SUBJECT: DC Motor Maintenance

SERIAL NUMBERS: 001-128,132, 134 and 140

DISCUSSION: Periodic Inspection of Brushes, Brush Holders and Commutator is necessary for DC Motor reliability.

RECOMMENDATION: DC Motors should be inspected monthly at the convenience of the Rig Operation.

Inspections for Brushes and Brush-holders:

1. Check the brushes. See detailed motor inspection instructions for data as specified below.
2. Examine brush-holders for damage.
3. Work the brushes up and down several times in the holders to release carbon dust or foreign material and to insure free movement of brushes. Do not snap the brush-holder spring.
4. Check clearances between the bottom of the brush-holders and commutator. See detailed motor inspection instructions for data as specified below.
5. Inspect brush-holder springs, spring tips, copper shunts, and pigtails.
6. Examine studs and insulators for chipping, cracking, or burning from flashover.
7. Recondition or replace defective parts. Replace a brush-holder if the carbonways are worn enough to allow more than 0.020-inch clearance in thickness between the brush and the carbonway.
8. Examine the Commutator. This can be polished or stoned to eliminate trouble. See detailed motor inspection instructions for data as specified below.

Detailed instructions for inspection, adjustment, repairs and replacement of components can be found in the Component Literature-Electrical of the Top Drive Manual: GE Publication GEK-91584B for 752 Motors, and GEI-91105B for 761 Motors.

INFORMATION:

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