TEST REPORT
Mud Slurry Testing of AGRO POINT HUB IL40-98/4T-M22

1. Testing Requirement

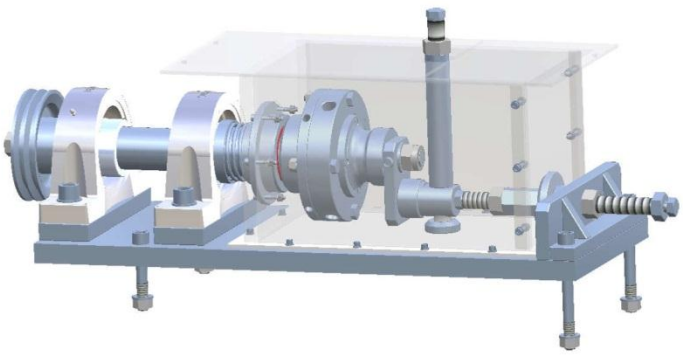
Durability of Hub bearings in operation submerged in mud slurry.

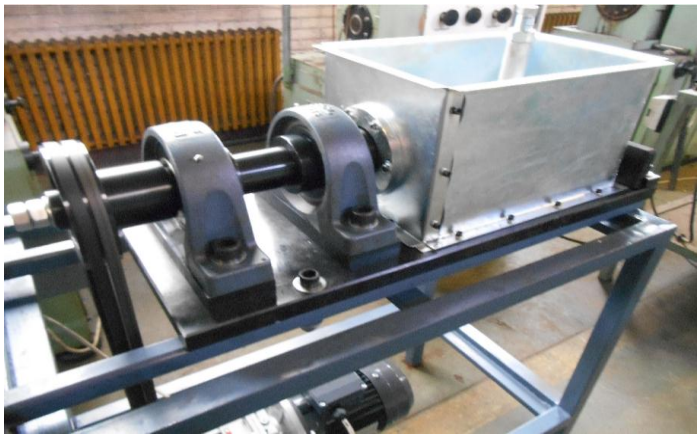
2. Testing Procedure

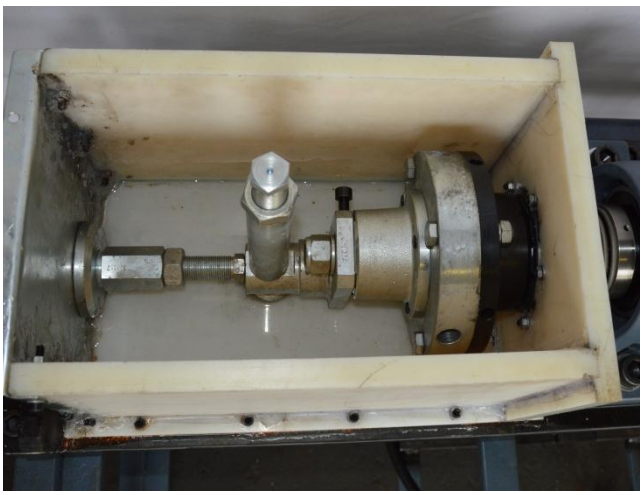
2.1. Mud Slurry Testing under load:

- Dynamic Load rating of **IL40-98/4T-M22**: 42.9 kN
- Measure axial clearance before testing=0.016 mm
- Radial Force Fr=3.5 kN
- Axial Force Fa=3.5 kN
- Test speed n=245 rpm

2.2. Test Rig







2.3. Loading procedure:

1. When the Test Rig is off, tighten the radial load bolt to the specified torque of 12 Nm, using the Torque Wrench.
2. When the Test Rig is off, tighten the axial load bolt to the specified torque of 12 Nm, using the Torque Wrench.
3. Turn on the Test Rig.
4. As the hub rotates, complete the tightening of the bolts for both load directions, first radially, to the specified torque of 12 Nm using a Torque Wrench.

Radial Load

Axial Load

2.4. Torque Wrench:

- Torque range 10-50 Nm
- Adjustable in 0.5 Nm steps

2.5. Mixture of Mud Slurry:

- 6 kg of Soil dust
- 2 kg of Sand
- 50 gr of Phosphated fertilizer
- 7 liter of Water

2.6. Criteria to stop testing:

- 1000 hours operation with no signals of damage. The hub must remain fully operational.
- Significant increase of the bearing internal clearance which indicates the bearing damage.

3. Test Results

- After 1000 hours of testing no contaminants penetrated through the Mudblock seal.
- Lubricant is in good condition.
- Measured axial clearance after testing=0.021 mm.

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