

TEST REPORT

Service Life Test of AGRO POINT HUB IL40-98/4T-M22

1. Testing Objective

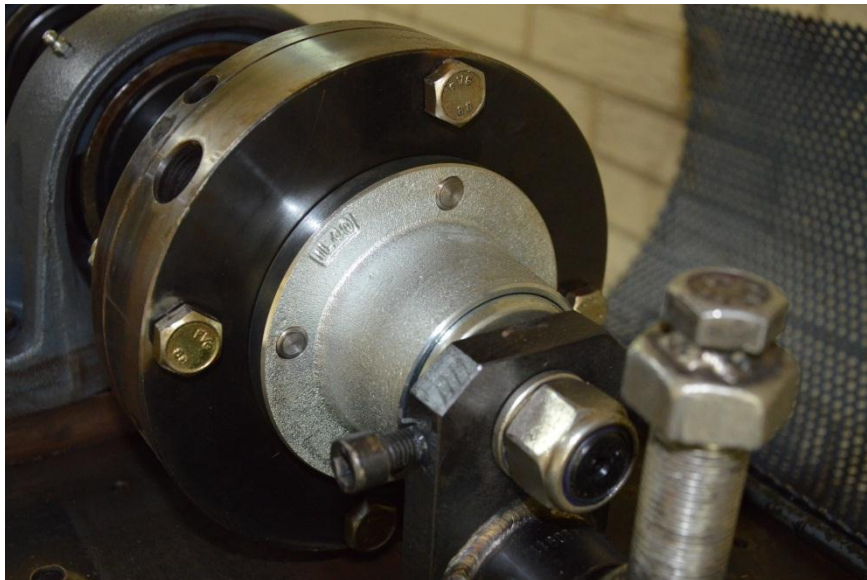
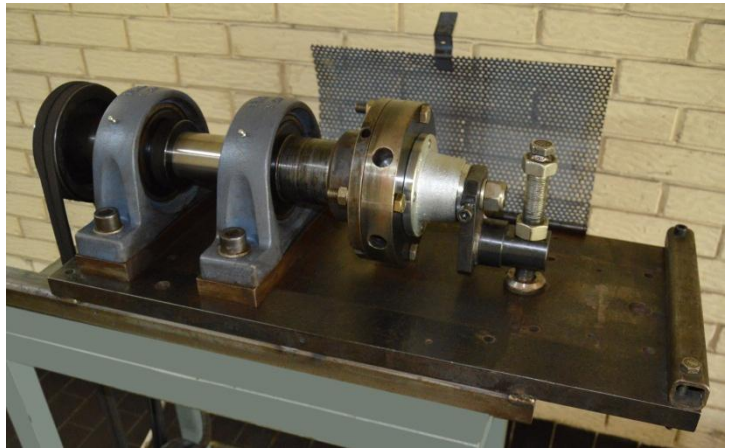
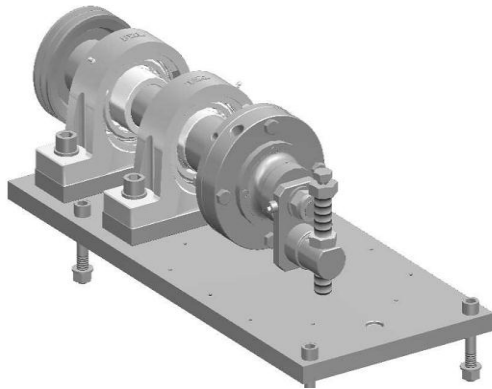
1.1 Checking the lifetime of the hub IL40-98/4T-M22

2. Testing Procedure

2.1 Accelerated test method :

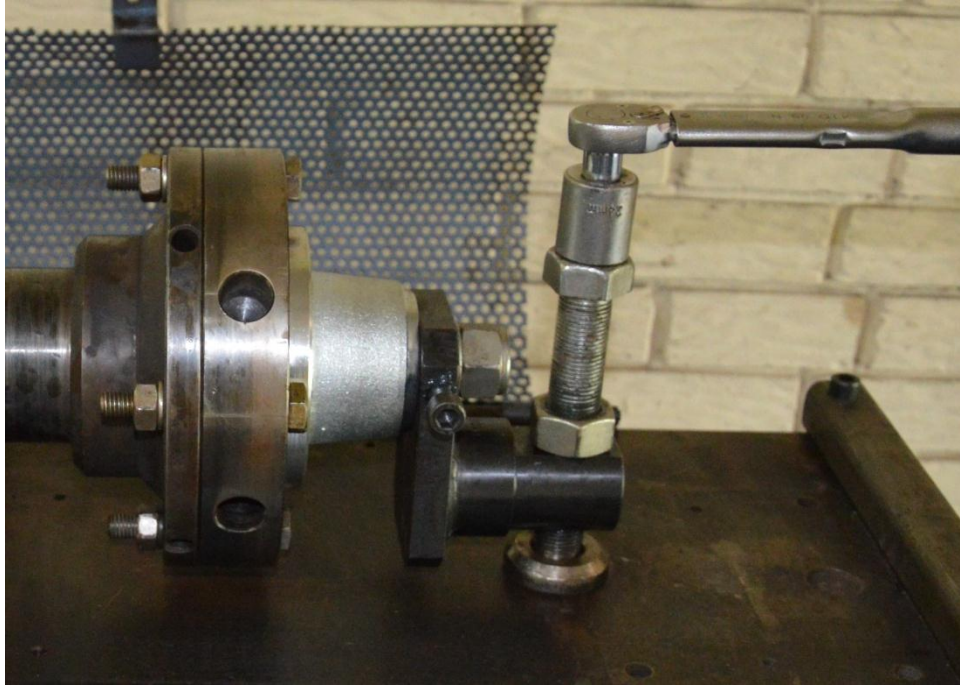
- Test Force $F=10$ kN
- Speed = 450 rpm

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 22 kN, using the Torque Wrench.
2. Turn on the Test Rig.
3. As the hub rotates, complete the tightening of the bolt to the specified torque of 22 kN, using a Torque Wrench.



Radial Load

2.4 Torque Wrench:

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



2.5 Criteria to stop testing:

- Increased vibration of the hub - noise.

3. Test Results

3.1 Life time of the hub

Start of testing: 4667 (hours on working time counter)

End of testing: 4844 (hours on working time counter)

Lifetime of the hub: $4844 - 4667 = 177$ hours



One of two inner rings is damaged

3.2 Parameters for real hub life calculation:

- Working Force 3 kN,
- Tractor speed 15 km/h,
- Disc diameter 560 mm,
- Harrow width 4 meters,
- Bearing speed 142 rpm.

3.3 Calculated hub life in hectares = 83 089 ha

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