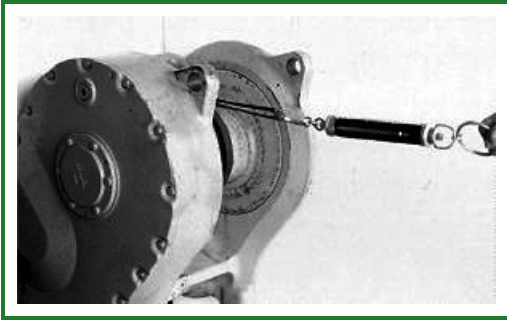


Winch Drum Rolling Drag Test



T7144CD-UN: 4000 Series Winch Shown

-: Specifications

SPECIFICATIONS	
Transmission Oil Temperature	43—55°C 110—130°F
Engine Speed	895—905 rpm
Winch Drum Rolling Drag	89 N 20 lb-force

-: Service Equipment and Tools

SERVICE EQUIPMENT AND TOOLS
Spring Scale

This test will measure winch drum free spool rolling drag.

1. Remove cable from drum. Loosen free spool drag screw.
2. Install rope to winch drum and attach rope to spring scale.
3. Warm transmission oil to specified temperature. [See Transmission Oil Warm-Up Procedure](#) . (Group 9020-25.)

Item	Measurement	Specification
Transmission Oil Temperature	43—55°C 110—130°F	

4. Put winch control valve in FREE SPOOL position and run engine at specified speed.

Item	Measurement	Specification
Engine Speed	895—905 rpm	

5. Pull spring scale slowly and record the amount of force necessary to keep drum rotating.
6. Compare recorded amount of force to specified maximum force.

Item	Measurement	Specification
Winch Drum	Rolling Drag	89 N 20 lb-force

7. If the force required to rotate the drum is excessive, check the following:

- Free spool drag screw.
- Wood or other debris wedged between drum and housing.
- For 4000 series winch, [perform Drum Bearing Preload Adjustment](#) . (CTM25.)

For 6000 series winch, [perform Drum Bearing Preload Adjustment](#) . (CTM41.)

- For 4000 series winch, [see Test Winch Gear Compartment Seals](#) . (CTM25.)

For 6000 series winch, [see Test Winch Gear Compartment Seals](#) . (CTM41.)

Go to [Section_9030:Group_25](#)

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