

METRIC

MIL-PRF-46750/1A(AT)

29 January 1998

SUPERSEDING

MIL-T-46750/1(AT)

29 July 1992

PERFORMANCE SPECIFICATION SHEET

TRANSMISSION, HYDRAULIC MODEL XTG411-2A

This specification is approved for use by the U.S. Army Tank-automotive and Armaments Command, Department of the Army, and is available for use by all Departments of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of MIL-PRF-46750 listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation.

TESTS:

Fourth range stall performance

Input:

Speed (rpm). 1700-1850

Torque (N-m (lb-ft)). *1000-1006 (738-742)

Output:

Speed (rpm). *0

Torque (N-m (lb-ft)). 2203 (1525) minimum (min.)

*Predetermined values

Oil pressure (kPa (psi))

Main 814 (118) min.

Lube 165-310 (24-45)

Output clutch RH Main-48 (7) min.

Output clutch LH Main-48 (7) min.

Cooler oil flow (L/s (gpm)) 2.33 (37) min.

Oil temperature:

Cooler-in (°C (°F)). 93-107 (200-225)

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Third range full steer performance

	<u>RH steer</u>	<u>LH steer</u>
Input:		
Speed (rpm)	1700-1900	1700-1900
Torque (N-m (lb-ft))	*1000-1006 (738-742)	*1000-1006 (738-742)
Output:		
Speed-RH (rpm)	*130-185	195-280
Speed-LH (rpm)	195-280	*130-185
Torque (N-m (lb-ft))	3796-4881 (2650-3600)	3796-4881 (2650-3600)
Oil pressure (kPa (psi))		
Main	1241-1655 (180-240)	1241-1655 (180-240)
Lube	103-241 (15-35)	103-241 (15-35)
Output clutch-RH	0	1207-1448 (175-210)
Output clutch-LH	1207-1448 (175-210)	0
Steer clutch-RH	552-895 (80-130)	0
Steer clutch-LH	0	552-895 (80-130)
Cooler oil flow (L/s (gpm))	1.33 (21) min.	1.33 (21) min.
Oil temperature:		
Cooler-in (°C (°F))	82-121 (180-250)	82-121 (180-250)

First range full steer performance

	<u>RH steer</u>	<u>LH steer</u>
Input:		
Speed (rpm)	*1490-1510	*1490-1510
Torque (N-m (lb-ft))	624-759 (460-560)	624-759 (460-560)
Output:		
Speed-RH (rpm)	0	185-225
Speed-LH (rpm)	185-225	0
Torque (N-m (lb-ft))	*2847-4881 (1900-3600)	*2847-4881 (1900-3600)
Oil pressure (kPa (psi)):		
Lube	90-207 (13-30)	90-207 (13-30)
Steer clutch-RH	0	1138-1448 (165-210)
Steer clutch-LH	1138-1448 (165-210)	0
Brake apply-RH	483-896 (70-130)	0
Brake apply-LH	0	483-896 (70-130)
Cooler Flow (L/s (gpm))	** 0.95-1.89 (15-30)	** 0.95-1.89 (15-30)
Oil temperature:		
Cooler-in (°C (°F))	82-121 (180-250)	82-121 (180-250)

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*Predetermined values **And a minimum of 0.5 l/s (8 gpm) less than no steer

Reverse-two performance

Input:

Speed (rpm) * 1640-1660
Torque (N-m (lb-ft)) 725-861 (535-635)

Output:

Speed (rpm) * 275-335

Oil pressure (kPa (psi)):

Output clutch-RH 1310-1862 (190-270)
Output clutch-LH 1310-1862 (190-270)
Main 1965 (285) min.

Cooler flow (L/s (gpm)) 1.26 (20) min.

Oil temperature

Cooler-in (°C (°F)) 82-121 (180-250)

Custodian:
Army - AT

Preparing Activity:
Army - AT

(Project 2520-0013)