



Test Monitoring Center

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High Temperature Cyclic Durability Information Letter 02-1
Sequence No. 9
September 27, 2002

ASTM consensus has not yet been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: High Temperature Cyclic Durability Mailing List

SUBJECT: 1. Failing Reference Oil Run Requirement
2. Test Hardware Correction and Revisions

At the September 18, 2002 High Temperature Cyclic Durability Surveillance Panel meeting, the panel approved the following changes to Test Method D 5579:

1. The failing reference oil will only be required every other calibration sequence. A revised Section 10.3 is attached.

2. Table 3, Part Numbers for Approved Configurations, has been revised to correct the rear compound mainshaft and synchronizer part numbers for configuration 2. An additional snap ring part number has been added to configurations 1 and 2. Attached is a revised Table 3.

The effective date for these changes is September 20, 2002.

Brian Koehler
Chairman
HTCT Surveillance Panel

John L. Zalar
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/gears/htct/procedure_and_ils/il02-1.pdf

Distribution: Email

(Revises Test Method D 5579-01)

10.3 *Reference Oil Test Frequency*—Each calibration sequence, conduct a passing reference oil test on each test stand after ten non-reference oil tests or six months, whichever occurs first. Every other calibration sequence, conduct both a passing and a failing reference oil test on each stand sequentially. Any non-reference oil test starting on or before six months after the completion of the reference oil test is considered to be within the calibration time period. To establish the data base for a new test stand, conduct five tests with the passing reference oil and two tests with the failing reference oil. Obtain the current limits for qualification of a test stand from the ASTM TMC.

(Revises Test Method D5579-01)

TABLE 3 Part Numbers for Approved Configurations

Part Description	TEST HARDWARE CONFIGURATION	
	Configuration 1	Configuration 2
Synchronizer Clutch Assembly	320KB450C	320KB459A
Synchronizer Pin (3 each)	301KC240B	301KC33
Synchronizer Pin (3 each)	301KC241B	301KC34
Synchronizer Pin (3 each)	48AX17	301KC35
Synchronizer Pre-load Spring (3 each)	107KD244	107KD247
High Range Mainshaft Gear	751KB489	751KB4123
Low Range Mainshaft Hub	84KC42	84KC47
Compound Mainshaft, Rear	601KC429	601KC432
Bearing, Compound Mainshaft	None required	46AX538
Thrust Washers, Mainshaft (2 each)	223KD316A	None Required
Snap Ring (2 each)	97AX151 or 97AX171	97AX151 or 97AX171
Snap Ring (2 each)	97AX267	97AX267
Shift Rail	591KC3154A	591KC3154A
O-ring, Low Range Shift Piston	56AX560	56AX560
Piston, High Low Range Shift	336KC318	336KC318
Cylinder Housing, Hi-Lo Shift Piston	55KC46A	55KC46A
O-ring, Compound Shift Piston	None Required	None Required
O-ring, Range High Low Shift Piston	56AX588	56AX588
Countershaft Gear, Front	757KB3322	757KB3322
	757KB4108	757KB4108
Countershaft Gear, Rear	757KB4106	757KB4106
	757KB440A	
Range Shift Valve	216KD123	216KD42