

Report Forms
Test Method D 7038
L-33-1
Version
Conducted For

| | |
|--|---|
| | V = Valid |
| | I = Invalid |
| | N = Results Cannot Be Interpreted (See Comment Section) |

| | |
|--|-----------------------------|
| | NR = Non-Reference Test Oil |
| | RO = Reference Oil Result |

| | | | |
|-------------------------|---------------|-------------------|--|
| Test Number | | | |
| Motoring Stand: | Storage Box : | Storage Box Run : | |
| Date Completed: | EOT Time: | | |
| Oil Code: | | | |
| Formulation/Stand Code: | | | |
| Alternate Codes: | | | |

| | |
|-------------------------|---|
| In my opinion this test | been conducted in a valid manner in accordance with ASTM Test Method D 7038 and the appropriate amendments through the information letter system. The remarks included in this report describe the anomalies associated with this test. |
|-------------------------|---|

Submitted By:

Testing Laboratory

Signature

Typed Name

Title

Section

**Test Method D 7038
L-33-1
Form 1 – Test Results**

| | | | |
|---|-----------------|---------------------------------------|------------------|
| Lab: | Motoring Stand: | Storage Box: | Storage Box Run: |
| Start Date: | EOT Date: | EOT Time: | Test Length: |
| Oil Code: | | | |
| TMC Oil Code: | Lab Oil Code: | Viscosity Grade: | |
| Latest Information Letter Test Was Run Under: | | | Gear Version: |
| Pinion Batch: | Ring Batch: | Axle Cover Rating Template Serial No. | |

| | | | | |
|--|-------------------------|--|---------------------------------------|--------------------------|
| Rater's Initials (After Test) : | | | | |
| Rust/Corrosion | | | | |
| Location | | CORRECTION FACTOR APPLIED^B | WEIGHTING FACTOR | WEIGHTED RUST |
| Differential Case: | RUST^A | | | |
| 1. At Pinion Contact | | | * .087 | |
| 2. Diff. Gear Contact | | | * .193 | |
| 3. Diff. Gears (Side) | | | * .094 | |
| 4. Axle Hsg. Cover | | | * .169 | |
| 5. Drive Gear (Ring) | | | * .079 | |
| 6. Drive Pinion | | | * .079 | |
| Bearing: | | | | |
| 7. Drive Pinion Roller | | | * .051 | |
| 8. Drive Pinion Cups | | | * .083 | |
| 9. Diff. Case Roller | | | * .071 | |
| 10. Diff. Case Cups | | | * .094 | |
| | | | Original Rust, Merit | |
| | | | Correction Factor, Merit | |
| | | | Severity Adjustment, Merit | |
| | | | Final Rust, Merit | |
| ^A Rust Level (Enter 10, 9, 8, 5 or 0): None = 10 Trace = 9 = not more than six spots, each less than 1mm in diameter Light = 8 = seven(7) or more spots less than 1mm in diameter or, one(1) or more spots greater or equal to 1mm in diameter with a combined area of all the spots no greater than 1% of the total rated component surface. Moderate = 5 = in excess of above and up to 5% of considered surface Heavy = 0 = covering more than 5% of considered surface | | | | |
| ^B Correction factor of +1 to be applied to locations 2 and 3 for K2XX hardware only. | | | | |

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|---|
| <p>Remarks: Note presence, location and amount of additional deposit-stain, sludge, etc.</p> |
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**Test Method D7038
L-33-1
Form 2
Last Reference Information & Operational Validity Summary**

| | |
|---------------|-------------------|
| Lab: | Motoring Stand : |
| Storage Box : | Storage Box Run : |
| Oil Code : | |

| Last Reference Oil Calibrating Stand Information - Fill Out For Non-reference Oil Tests Only | | |
|--|---------------|------------------|
| Motoring Stand: | Storage Box : | Storage Box Run: |
| Date Completed: | TMC Oil Code: | |
| Gear Version: | Pinion Batch: | Ring Batch: |

Operator's Initials:

| Turning Torques | | |
|------------------------|---------|-------|
| Pinion, lbf-in. | Break: | Turn: |
| Full Assembly, lbf-in. | Break : | Turn: |

| Warm-Up | | |
|--------------------|---------|---------|
| Date/Time | Start: | Finish: |
| Oil Temperature °F | Start : | Finish: |

| Motoring Phase | | | |
|---------------------|----------|----------|----------|
| Date/Time | Start: | Finish: | |
| Pinion Speed, r/min | Average: | Maximum: | Minimum: |
| Oil Temperature, °F | Average: | Maximum: | Minimum: |

| Storage Phase | | | |
|---------------------|----------|----------|----------|
| Date/Time | Start : | Finish: | |
| Oil Temperature, °F | Average: | Maximum: | Minimum: |

| Percent Deviation | | | | | | |
|----------------------|-----------------|-----------------|-----------------------|-----------------|-----------------|-----------------------|
| Controlled Parameter | Motoring Phase | | | Storage Phase | | |
| | Allowable % Out | This Test % Out | Actual Time Out min:s | Allowable % Out | This Test % Out | Actual Time Out min:s |
| Oil Temperature | 5 | | | 4 | | |

Test Method D 7038
L-33-1
Form 3
Pre Test Rating ^A

| | |
|---------------|------------------|
| Lab: | Motoring Stand: |
| Storage Box : | Storage Box Run: |
| Oil Code: | |

Match No.: _____ Date: _____ Rated By: _____

Differential Case

Area 1. At Pinion Contact: _____

Area 2. At Differential Gear Contact: _____

Area 3. Differential Gears (Side Gears): _____

Area 4. Axle Housing Cover: _____

Area 5. Drive Gears (Ring): _____

Area 6. Drive Pinion: _____

Area 7. Drive Pinion Rollers: _____

Area 8. Drive Pinion Cups: _____

Area 9. Differential Case Rollers: _____

Area 10. Differential Case Cups: _____

^A After Abrasive Blasting

