

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

GROVE 7164 (S/N 227867)

Transmission (Manual)

SYNGEAR 50 WT (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

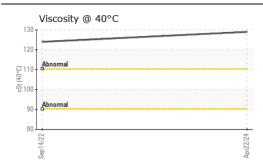
There is no indication of any contamination in the fluid.

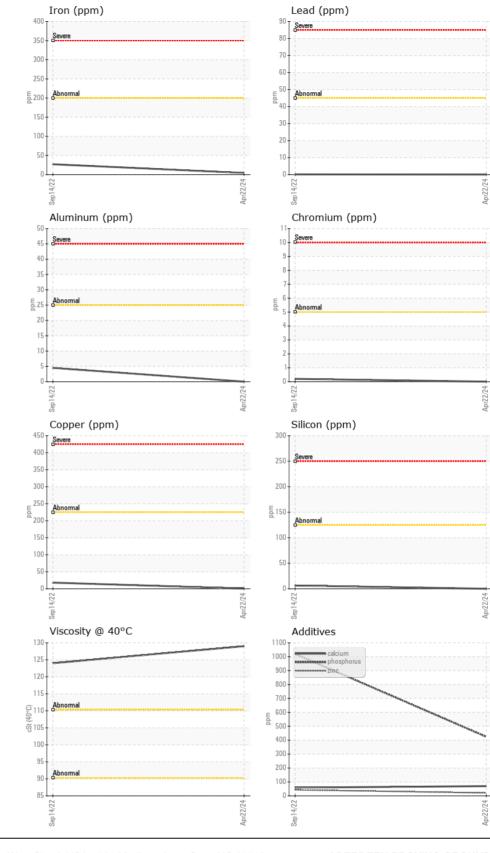
FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--|---|---|---|--|---|----------|
| Sample Number | | Client Info | | DC0021605 | DC0022786 | |
| Sample Date | | Client Info | | 22 Apr 2024 | 14 Sep 2022 | |
| Machine Age | hrs | Client Info | | 7155 | 7987 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Filter Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | Changed | Changed | |
| Filter Changed | | Client Info | | Changed | N/A | |
| Sample Status | | | | NORMAL | NORMAL | |
| lron | | | . 000 | А | 07 | |
| Iron | ppm | ASTM D5185m | >200 | 4 | 27 | |
| Chromium | ppm | ASTM D5185m | >5 | 0 | <1 | |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | . 7 | 0 | 0 | |
| Silver | ppm | ASTM D5185m | >7 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | 4 | |
| Lead | ppm | ASTM D5185m | >45 | 0 | <1 | |
| Copper | ppm | ASTM D5185m | >225 | <1 | 18 | |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | |
| Vanadium | ppm | ASTM D5185m | NONE | 0 | 0 | |
| White Metal | scalar | *Visual | NONE | NONE | NONE | |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| Silicon | ppm | ASTM D5185m | >125 | 0 | 6 | |
| | | /101111 20100111 | 2120 | U | 0 | |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 12 | |
| Potassium Water | | | | - | ÷ | |
| | | ASTM D5185m | >20 | 0 | 12 | |
| Water | ppm | ASTM D5185m WC Method | >20 >0.1 | 0 NEG | 12 NEG | |
| Water Silt | ppm scalar | ASTM D5185m WC Method *Visual | >20 >0.1 NONE | 0 NEG NONE | 12 NEG NONE | |
| Water Silt Debris | ppm scalar scalar | ASTM D5185m WC Method *Visual *Visual | >20 >0.1 NONE NONE | 0 NEG NONE NONE | 12 NEG NONE LIGHT | |
| Water Silt Debris Sand/Dirt | ppm scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual | >20 >0.1 NONE NONE NONE | 0 NEG NONE NONE NONE | 12 NEG NONE LIGHT NONE | |
| Water Silt Debris Sand/Dirt Appearance | ppm scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual | >20 >0.1 NONE NONE NONE | 0 NEG NONE NONE NONE NORML | 12 NEG NONE LIGHT NONE NORML | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water | ppm scalar scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG | 12 NEG NONE LIGHT NONE NORML NORML NEG | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium | ppm scalar scalar scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG | 12 NEG NONE LIGHT NORML NORML NEG 6 | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron | ppm scalar scalar scalar scalar scalar scalar ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG 1 167 | 12 NEG NONE LIGHT NORML NORML NEG 6 157 | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium | ppm scalar scalar scalar scalar scalar scalar ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG 1 167 0 | 12 NEG NONE LIGHT NORML NORML NEG 6 157 0 | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum | ppm scalar scalar scalar scalar scalar ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG 1 167 0 0 | 12 NEG NONE LIGHT NORML NORML NEG 6 157 0 <1 | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG 1 167 0 0 0 | 12 NEG NONE LIGHT NORML NORML NEG 6 157 0 <1 2 | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG 1 167 0 0 0 0 | 12 NEG NONE LIGHT NORML NORML NEG 6 157 0 <12 2 2 | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG 1 167 0 0 0 0 0 0 0 0 0 0 0 0 0 | 12 NEG NONE LIGHT NORML NORML NEG 6 157 0 <157 0 <12 2 2 59 | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG 1 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 12 NEG NONE LIGHT NORML NORML NEG 6 157 0 <157 2 2 2 59 1020 | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG 1 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 12 NEG NONE LIGHT NONE NORML NORML NEG 6 157 0 <12 2 2 59 1020 43 | |
| Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium | ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >20 >0.1 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG 1 167 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 12 NEG NONE LIGHT NORML NORML NEG 6 157 0 <157 2 2 2 59 1020 | |

Contact/Location: TONY DAVIS - CRAABEMD





ABERDEEN PROVING GROUND Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 6721 RARITON AVENUE : DC0021605 : 23 Apr 2024 Lab Number : 06158612 ABERDEEN, MD Tested : 24 Apr 2024 Unique Number : 10994035 : 24 Apr 2024 - Wes Davis US 21005 Diagnosed Test Package : MOB 1 Contact: TONY DAVIS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tdavis@vacraneworks.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (410)688-1725 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Contact/Location: TONY DAVIS - CRAABEMD Page 2 of 2