

Machine Id CR1229 Component 3 Swing Drive Fluid GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

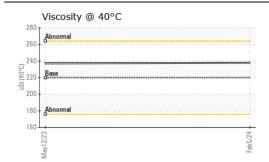
There is no indication of any contamination in the oil.

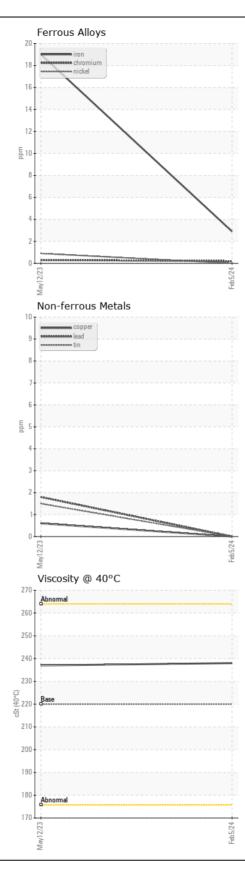
FLUID CONDITION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|--|--|--|----------------------|
| Sample Number | | Client Info | | WC0873216 | WC0809333 | |
| Sample Date | | Client Info | | 05 Feb 2024 | 12 May 2023 | |
| Machine Age | hrs | Client Info | | 3049 | 2563 | |
| 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 | Changed | |
| Sample Status | | | NORMAL | NORMAL | | |
| Iron | | | . 400 | o | 10 | |
| Iron | ppm | ASTM D5185m | >400 | 3 | 19 | |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | |
| Nickel | ppm | ASTM D5185m | >10 | 0 | <1 | |
| Titanium Silver | ppm | ASTM D5185m ASTM D5185m | | 0 | 0 | |
| | ppm | | 05 | 0 | <1 | |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | 0 | |
| Lead | ppm | ASTM D5185m | >50 >200 | 0 | 2 | |
| Copper | ppm | ASTM D5185m | | 0 | <1 | |
| Tin | ppm | ASTM D5185m | >10 | 0 | 2 | |
| Vanadium | ppm | ASTM D5185m | NONE | 0 | <1 | |
| White Metal | scalar | *Visual | NONE | NONE | NONE | |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| | | | | | | |
| Silicon | ppm | ASTM D5185m | >50 | 0 | 1 | |
| Silicon Potassium | ppm ppm | ASTM D5185m ASTM D5185m | >50 >20 | 0 | 1 6 | |
| | | | | - | | |
| Potassium | | ASTM D5185m | >20 | 0 | 6 | |
| Potassium Water | ppm | ASTM D5185m WC Method | >20 >0.2 | 0 NEG | 6 NEG | |
| Potassium Water Silt | ppm scalar | ASTM D5185m WC Method *Visual | >20 >0.2 NONE | 0 NEG NONE | 6 NEG NONE | |
| Potassium Water Silt Debris | ppm scalar scalar | ASTM D5185m WC Method *Visual *Visual | >20 >0.2 NONE NONE | 0 NEG NONE NONE | 6 NEG NONE NONE | |
| Potassium Water Silt Debris Sand/Dirt | ppm scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual | >20 >0.2 NONE NONE NONE | 0 NEG NONE NONE | 6 NEG NONE NONE | |
| Potassium Water Silt Debris Sand/Dirt Appearance | ppm scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual | >20 >0.2 NONE NONE NONE NORML | 0 NEG NONE NONE NONE NORML | 6 NEG NONE NONE NONE NORML | |
| Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water | ppm scalar scalar scalar scalar scalar scalar | ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual | >20 >0.2 NONE NONE NORML NORML | 0 NEG NONE NONE NORML NORML NEG | 6 NEG NONE NONE NORML NORML NEG | |
| Potassium 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 >0.2 NONE NONE NORML NORML >0.2 | 0 NEG NONE NONE NORML NORML NEG 0 | 6 NEG NONE NONE NORML NORML NEG | |
| Potassium 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 >0.2 NONE NONE NORML >0.2 | 0 NEG NONE NONE NORML NORML NEG 0 0 | 6 NEG NONE NONE NORML NORML NEG 4 <1 | |
| Potassium 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 >0.2 NONE NONE NORML NORML >0.2 50 15 | 0 NEG NONE NONE NORML NORML NEG 0 0 <1 | 6 NEG NONE NONE NORML NORML NEG 4 <1 0 | |
| Potassium 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 >0.2 NONE NONE NORML >0.2 | 0 NEG NONE NONE NORML NORML NEG 0 0 <1 0 | 6 NEG NONE NONE NORML NORML NEG 4 <1 0 <1 | |
| Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum 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 >0.2 NONE NONE NORML >0.2 50 15 15 | 0 NEG NONE NONE NORML NORML NEG 0 0 <1 0 <1 | 6 NEG NONE NONE NORML NORML NEG 4 <1 0 <1 <1 | |
| Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum 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 ASTM D5185m | >20 >0.2 NONE NONE NORML NORML >0.2 50 15 15 | 0 NEG NONE NONE NORML NORML NEG 0 0 <1 0 <1 0 <1 0 <1 0 | 6 NEG NONE NONE NORML NORML NEG 4 <1 0 <1 <1 <1 | |
| Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium | 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 >0.2 NONE NONE NORML NORML >0.2 50 15 15 50 50 | 0 NEG NONE NONE NORML NORML NEG 0 <1 0 <1 0 <1 0 <1 0 0 | 6 NEG NONE NONE NORML NORML NEG 4 <1 0 <1 <1 <1 <1 19 | |
| Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Malybdenum 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 >0.2 NONE NONE NORML >0.2 50 15 15 50 50 50 350 | 0 NEG NONE NONE NORML NORML NEG 0 c1 0 c1 0 c1 0 c1 0 c1 0 c1 0 c1 0 c | 6 NEG NONE NONE NORML NORML NEG 4 <1 0 <1 <1 <1 19 19 | |
| Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum 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 >0.2 NONE NONE NORML >0.2 50 15 15 50 50 50 350 100 | 0 NEG NONE NONE NORML NORML NEG 0 c1 0 c1 0 c1 0 c1 0 c1 0 c1 0 c1 0 c | 6 NEG NONE NONE NORML NORML NEG 4 <1 0 <1 <1 <1 <1 19 19 0 | |
| Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium 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 >0.2 NONE NONE NORML >0.2 50 15 15 50 50 50 350 | 0 NEG NONE NONE NORML NORML NEG 0 c1 0 c1 0 c1 0 c1 0 c1 0 c1 0 c1 0 c | 6 NEG NONE NONE NORML NORML NEG 4 <1 0 <1 <1 <1 19 19 | |

Contact/Location: MICHAEL LAWSON - BUCGRA





Tested

BUCKNER HEAVY LIFT : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received :08 Feb 2024 4732 NC 54 EAST : 09 Feb 2024 GRAHAM, NC : 11 Feb 2024 - Don Baldridge US 27253-9215 Diagnosed Contact: MICHAEL LAWSON To discuss this sample report, contact Customer Service at 1-800-237-1369. michaell@bucknercompanies.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)376-8888 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)376-4090

Certificate L2367

УÆ Laboratory

Sample No.

Lab Number : 06083986

Unique Number : 10871431

Test Package : CONST

: WC0873216

Page 2 of 2