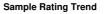


OIL ANALYSIS REPORT





Machine Id Component **Rear Differential**

Fluic GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

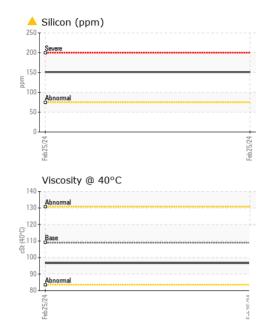
Fluid Condition

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

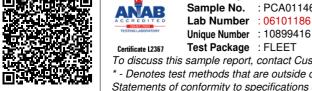
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|--|---|---|---|--|---|---|
| Sample Number | | Client Info | | PCA0114667 | | |
| Sample Date | | Client Info | | 25 Feb 2024 | | |
| Machine Age | mls | Client Info | | 0 | | |
| Oil Age | mls | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | ABNORMAL | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >.2 | NEG | | |
| WEAR METALS | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >500 | 204 | | |
| Chromium | ppm | ASTM D5185m | >10 | 2 | | |
| Nickel | ppm | ASTM D5185m | >10 | 4 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | | 0 | | |
| Aluminum | ppm | ASTM D5185m | >25 | 6 | | |
| Lead | ppm | ASTM D5185m | >25 | 0 | | |
| Copper | ppm | ASTM D5185m | >100 | <1 | | |
| Tin | ppm | ASTM D5185m | >10 | 0 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 400 | 137 | | |
| Barium | ppm | ASTM D5185m | 200 | <1 | | |
| | | | | | | |
| | ppm | ASTM D5185m | 12 | 0 | | |
| Molybdenum | ppm ppm | ASTM D5185m ASTM D5185m | 12 | 0 4 | | |
| Molybdenum Manganese | ppm | | 12 12 | - | | |
| Molybdenum Manganese Magnesium | ppm ppm | ASTM D5185m | | 4 | | |
| Molybdenum Manganese Magnesium Calcium | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 12 | 4 3 28 | | |
| Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 12 150 1650 | 4 3 | | |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 12 150 | 4 3 28 953 | | |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 12 150 1650 125 | 4 3 28 953 7 | | |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 12 150 1650 125 22500 limit/base | 4 3 28 953 7 23555 | | |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN | ppm ppm ppm ppm ppm ppm TS | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 12 150 1650 125 22500 limit/base | 4 3 28 953 7 23555 current | history1 | history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m | 12 150 1650 125 22500 limit/base >75 | 4 3 28 953 7 23555 current ▲ 151 | history1 | history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium | ppm ppm ppm ppm ppm ppm TS ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 12 150 1650 125 22500 limit/base >75 | 4 3 28 953 7 23555 <u>current</u> ▲ 151 0 | history1 | history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm TS ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 12 150 1650 125 22500 limit/base >75 >20 | 4 3 28 953 7 23555 current 151 0 0 | history1 | history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal | ppm ppm ppm ppm ppm ppm TS ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 12 150 1650 125 22500 limit/base >75 >20 limit/base | 4 3 28 953 7 23555 current ▲ 151 0 0 0 current | history1 history1 | history2 history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m | 12 150 1650 125 22500 limit/base >75 >20 limit/base NONE | 4 3 28 953 7 23555 current 151 0 0 0 current NONE | history1 history1 | history2 history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate | ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Yisual | 12 150 1650 125 22500 limit/base >75 >20 limit/base NONE NONE | 4 3 28 953 7 23555 current 151 0 0 0 current NONE NONE | history1 history1 history1 | history2 history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt | ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual | 12 150 1650 125 22500 limit/base >75 >20 limit/base NONE NONE NONE NONE | 4 3 28 953 7 23555 current 151 0 0 0 current NONE NONE NONE NONE | history1 history1 | history2 history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris | ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual | 12 150 1650 125 22500 Iimit/base >75 >20 Iimit/base NONE NONE NONE NONE | 4 3 28 953 7 23555 current 151 0 0 0 current NONE NONE NONE NONE LIGHT | history1 history1 history1 | history2 history2 history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual | 12 150 1650 125 22500 Iimit/base >75 20 Iimit/base NONE NONE NONE NONE NONE NONE | 4 3 28 953 7 23555 current 151 0 0 0 current NONE NONE NONE LIGHT NONE | history1 history1 | history2 history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual | 12 150 1650 125 22500 Iimit/base >75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE | 4 3 28 953 7 23555 current 151 0 0 0 current NONE NONE LIGHT NONE LIGHT NONE NONE | history1 history1 | history2 <p< td=""></p<> |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual | 12 150 1650 125 22500 Iimit/base >75 | 4 3 28 953 7 23555 current 151 0 0 current NONE NONE NONE LIGHT NONE NONE NONE NONE NONE NONE NONE NONE | history1 history1 | history2 history2 |
| Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor | ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual | 12 150 1650 125 22500 imit/base >75 20 imit/base >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON | 4 3 28 953 7 23555 current 151 0 0 0 current NONE NONE NONE LIGHT NONE | history1 history1 - | history2 |



OIL ANALYSIS REPORT



| FLUID PROP | ERTIES | method | limit/base | current | history1 | history2 |
|--|--------------------------------------|--------------------|---|----------|----------|---|
| Visc @ 40°C | cSt | ASTM D445 | 109 | 96.6 | | |
| SAMPLE IMA | GES | method | limit/base | current | history1 | history2 |
| Color | | | | no image | no image | no image |
| Bottom | | | | no image | no image | no image |
| GRAPHS | | | | | | • |
| Ferrous Alloys | | | Feb25/24 | | | |
| Non-ferrous Meta | als | | | | | |
| 9 8 100 100 100 100 100 100 100 100 100 1 | | | | | | |
| Feb25/24 | | | Feb25/24 | | | |
| Viscosity @ 40°C | ; | | Feb25/24 | | | |
| WearCheck USA - 5 PCA0114667 06101186 10899416 FLEFT | 01 Madiso Recei Teste Diagn | ved : 26 d : 28 | , NC 27513 5 Feb 2024 3 Feb 2024 Feb 2024 - Se | | | NDENCE BLVE COLUMBIA, SC US 29210 |



Test Package : FLEET Contact: GEORGE EDWARDS To discuss this sample report, contact Customer Service at 1-800-237-1369. gedwards@nwwhite.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Laboratory

T:

F: