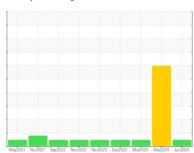


OIL ANALYSIS REPORT

Sample Rating Trend









DIAGNOSIS

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

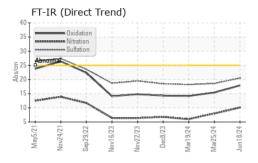
Fluid Condition

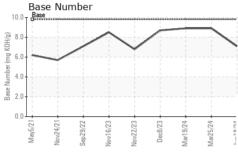
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

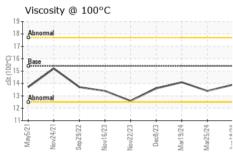
| • | GAL) | | | | | |
|---------------|----------|-------------|------------|-------------|--------------|-------------|
| SAMPLE INFOR | RMATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0122384 | GFL0117643 | GFL0108882 |
| Sample Date | | Client Info | | 18 Jun 2024 | 25 Mar 2024 | 19 Mar 2024 |
| Machine Age | hrs | Client Info | | 13313 | 12672 | 12670 |
| Oil Age | hrs | Client Info | | 12672 | 12189 | 12189 |
| Oil Changed | | Client Info | | Changed | Changed | Not Changd |
| Sample Status | | | | NORMAL | SEVERE | NORMAL |
| CONTAMINAT | ΓΙΟΝ | method | limit/base | current | history1 | history2 |
| -uel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Nater | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METAL | _S | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185m | >75 | 50 | ▲ 172 | 6 |
| Chromium | ppm | ASTM D5185m | >5 | 1 | 3 | 0 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | 1 | 0 |
| Γitanium | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >15 | 5 | 11 | <1 |
| _ead | ppm | ASTM D5185m | >25 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >100 | 6 | 8 | 0 |
| Γin | ppm | ASTM D5185m | >4 | <1 | 3 | 0 |
| /anadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 4 | 1 | <1 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 56 | 58 | 56 |
| Manganese | ppm | ASTM D5185m | 0 | 1 | 1 | 0 |
| Magnesium | ppm | ASTM D5185m | 1010 | 963 | 954 | 969 |
| Calcium | ppm | ASTM D5185m | 1070 | 1078 | 1080 | 1067 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1067 | 1036 | 1049 |
| Zinc | ppm | ASTM D5185m | 1270 | 1320 | 1283 | 1272 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3441 | 3732 | 3622 |
| CONTAMINAN | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 7 | 6 | 2 |
| Sodium | ppm | ASTM D5185m | | 7 | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 6 | 2 | 0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >6 | 0.6 | 0.4 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.1 | 8.0 | 6.0 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.5 | 18.6 | 18.2 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| . 2015 52a | | | | | , | , |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.9 | 15.4 | 14.2 |



OIL ANALYSIS REPORT



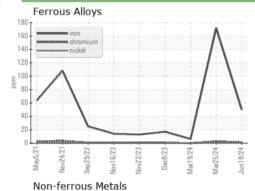


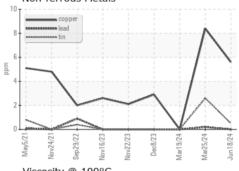


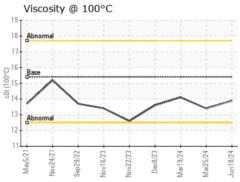
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

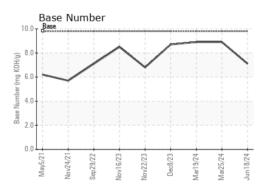
| FLUID PROPE | RHES | method | | | | history2 |
|--------------|------|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.9 | 13.4 | 14.1 |

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0122384 Lab Number : 06215370 Unique Number : 11088234 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024

Tested : 21 Jun 2024 Diagnosed : 21 Jun 2024 - Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge Sterling Heights, MI US 48313

Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

Report Id: GFL415 [WUSCAR] 06215370 (Generated: 06/21/2024 12:04:02) Rev: 1

Submitted By: Frank Wolak