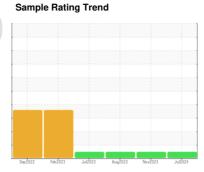


OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

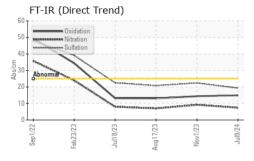
Fluid Condition

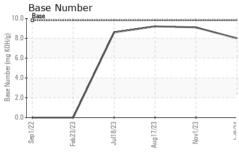
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

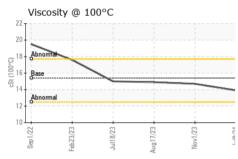
| • | LIK) | | | | | |
|---------------|----------|-------------|------------|-------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0106056 | GFL0078607 | GFL008206 |
| Sample Date | | Client Info | | 09 Jul 2024 | 01 Nov 2023 | 17 Aug 2023 |
| Machine Age | hrs | Client Info | | 36954 | 36804 | 36460 |
| Oil Age | hrs | Client Info | | 0 | 0 | 248 |
| Oil Changed | | Client Info | | Not Changd | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >120 | 13 | 31 | 20 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | <1 | 3 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 2 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 3 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 9 | 9 | 11 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 63 | 61 | 65 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 875 | 911 | 1031 |
| Calcium | ppm | ASTM D5185m | 1070 | 1163 | 1063 | 1189 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1071 | 963 | 1110 |
| Zinc | ppm | ASTM D5185m | 1270 | 1250 | 1206 | 1361 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3542 | 2860 | 3915 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 12 | 6 | 3 |
| Sodium | ppm | ASTM D5185m | | 5 | 3 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 0 | 0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >4 | 0.2 | 3.1 | 2.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.4 | 9.2 | 7.0 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.3 | 22.4 | 20.8 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| 0 | Al / d | *ACTM D7414 | 0.5 | | 4.4.4 | 40.4 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.9 | 14.4 | 13.1 |



OIL ANALYSIS REPORT



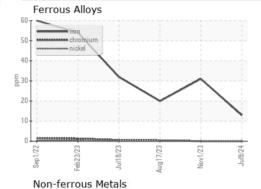


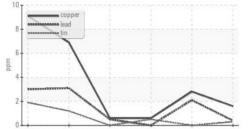


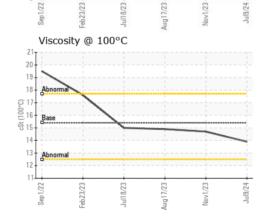
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | 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 |

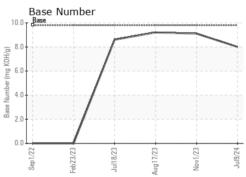
| FLUID PROP | ERIIES | method | | | riistory i | nistoryz |
|--------------|--------|-----------|------|------|------------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.9 | 14.7 | 14.9 |

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0106056 Lab Number : 06235371

Unique Number : 11124205 Test Package : FLEET

Received **Tested** Diagnosed

: 15 Jul 2024 : 15 Jul 2024 : 15 Jul 2024 - Wes Davis

GFL Environmental - 152 - Jacksonville 7580 PHILIPS HWY

Jacksonville, FL US 32256 Contact: Chris Smith

chris.smith@gflenv.com T: (904)252-0013

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: GFL152 [WUSCAR] 06235371 (Generated: 07/15/2024 14:39:00) Rev: 1