WEAR CONTAMINATION **FLUID CONDITION**

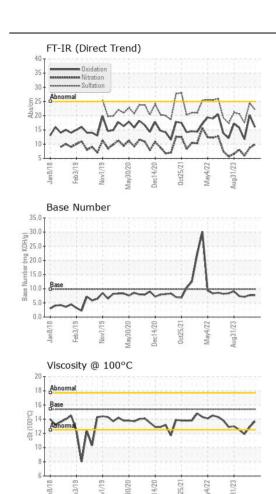
NORMAL NORMAL NORMAL

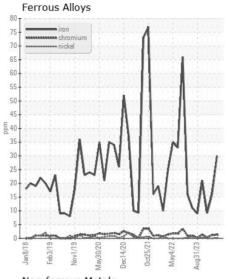
(PX422R)

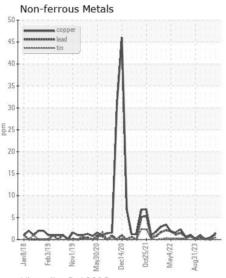
10527

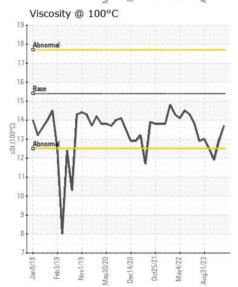
Diesel Engine

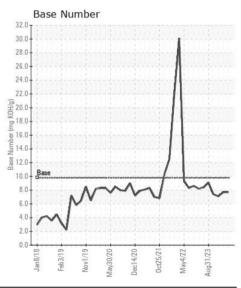
| |) | | | | | | |
|---|------------------|-----------------|-------------|-----------|-------------|-------------|------------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | GFL0114502 | GFL0074646 | GFL009248 |
| | Sample Date | | Client Info | | 14 Apr 2024 | 18 Jan 2024 | 06 Nov 202 |
| | Machine Age | hrs | Client Info | | 23700 | 23115 | 22558 |
| | Oil Age | hrs | Client Info | | 0 | 557 | 127 |
| | Filter Age | hrs | Client Info | | 0 | 557 | 127 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| VEAR | Iron | ppm | ASTM D5185m | >100 | 30 | 16 | 9 |
| | Chromium | ppm | ASTM D5185m | >20 | 1 | 1 | <1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | >4 | <1 | 0 | 0 |
| | Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 3 | 3 | 2 |
| | Lead | ppm | ASTM D5185m | >40 | 1 | 0 | <1 |
| | Copper | ppm | ASTM D5185m | >330 | 1 | <1 | 0 |
| | Tin | ppm | ASTM D5185m | >15 | <1 | 0 | 0 |
| | Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 7 | 5 | 5 |
| | Potassium | ppm | ASTM D5185m | | 16 | 2 | <1 |
| There is no indication of any contamination in the oil. | Fuel | ррпп | WC Method | | <1.0 | <1.0 | 0.8 |
| | Water | | WC Method | | NEG | NEG | NEG |
| | Glycol | | WC Method | 70.L | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | \3 | 1.8 | 1.6 | 0.6 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 9.9 | 8.7 | 5.9 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 22.1 | 24.5 | 17.5 |
| | 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 | NORM |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORM |
| | Emulsified Water | | *Visual | >0.2 | NEG | NEG | NEG |
| LUID CONDITION | Sodium | nnm | ASTM D5185m | | 16 | 15 | 10 |
| LOID CONDITION | Boron | ppm | ASTM D5185m | 0 | 9 | 6 | 5 |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 66 | 53 | 53 |
| | Manganese | | ASTM D5185m | | <1 | 0 | <1 |
| | Magnesium | ppm | ASTM D5185m | | 865 | 724 | 706 |
| | Calcium | ppm | ASTM D5185m | | 1086 | 863 | 884 |
| | Phosphorus | ppm | ASTM D5185m | | 963 | 892 | 818 |
| | Zinc | | ASTM D5185m | | 1139 | 976 | 987 |
| | Sulfur | ppm | ASTM D5185m | | 3107 | 2571 | 2396 |
| | Oxidation | ppm Abs/.1mm | *ASTM D7414 | | 16.0 | 20.2 | 11.7 |
| | Base Number (BN) | | ASTM D2896 | | 7.7 | 7.7 | 7.1 |
| | | | | | | | |













Certificate L2367

Laboratory Sample No.

Lab Number : 06150896 Unique Number : 10980974

: GFL0114502 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024 **Tested**

: 17 Apr 2024 Diagnosed : 17 Apr 2024 - Wes Davis

GFL Environmental - 095 - Atlanta West

2699 Cochran Industrial Blvd

Douglasville, GA US 30127-1332

Contact: Darrell Welch

darrell.welch@gflenv.com T: (800)207-6618

* - 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)