WEAR CONTAMINATION **FLUID CONDITION**

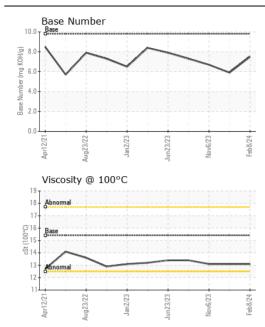
NORMAL NORMAL NORMAL

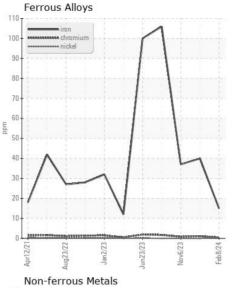
Machine Id

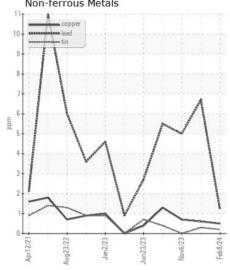
429022-1227

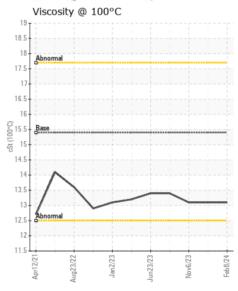
Component Diesel Engine

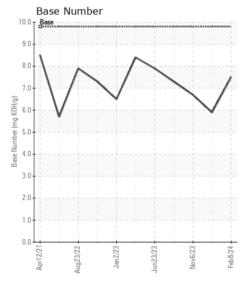
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------|-------------|-----------------|-------------|-------------|------------|
| | Sample Number | | Client Info | | GFL0094888 | GFL0094868 | GFL009485 |
| Resample at the next service interval to monitor. (Customer Sample Comment: Services completed) | Sample Date | | Client Info | | 08 Feb 2024 | 08 Dec 2023 | 06 Nov 202 |
| | Machine Age | hrs | Client Info | | 10058 | 9829 | 9661 |
| | Oil Age | hrs | Client Info | | 237 | 584 | 416 |
| | Filter Age | hrs | Client Info | | 237 | 584 | 416 |
| | Oil Changed | | Client Info | | Changed | Changed | Not Chang |
| | Filter Changed | | Client Info | | Changed | Changed | Not Chang |
| | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR | Iron | ppm | ASTM D5185m | >100 | 15 | 40 | 37 |
| WEAR | Chromium | ppm | ASTM D5185m | | <1 | 1 | <1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | | 10 | 6 | 4 |
| | Lead | ppm | ASTM D5185m | | 1 | 7 | 5 |
| | Copper | ppm | ASTM D5185m | | <1 | <1 | <1 |
| | Tin | ppm | ASTM D5185m | | <1 | <1 | 0 |
| | Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | nnm | ASTM D5185m | > 25 | 3 | 4 | 4 |
| CONTAMINATION | Potassium | ppm | ASTM D5185m | | 19 | 12 | 11 |
| There is no indication of any contamination in the oil. | Fuel | ppiii | WC Method | | <1.0 | <1.0 | <1.0 |
| | Water | | WC Method | | NEG | NEG | NEG |
| | Glycol | | WC Method | <i>></i> 0.2 | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | \3 | 0.4 | 0.6 | 0.5 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 8.8 | 11.8 | 10.5 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 20.0 | 23.4 | 22.2 |
| | 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 | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 3 | 4 | 2 |
| LOID CONDITION | Boron | ppm | ASTM D5185m | 0 | 5 | 2 | <1 |
| 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 | | 61 | 63 | 65 |
| | Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | Magnesium | ppm | ASTM D5185m | | 923 | 945 | 955 |
| | Calcium | ppm | ASTM D5185m | | 1033 | 1045 | 1100 |
| | Phosphorus | ppm | ASTM D5185m | | 1056 | 1024 | 915 |
| | Zinc | ppm | ASTM D5185m | | 1276 | 1250 | 1248 |
| | Sulfur | ppm | ASTM D5185m | | 3080 | 3119 | 3018 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | | 15.3 | 19.3 | 17.5 |
| | Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 7.5 | 5.9 | 6.7 |
| | | | | | | | |













Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06088067

: GFL0094888

Tested Diagnosed Unique Number : 10875512 Test Package : FLEET

Received : 13 Feb 2024 : 14 Feb 2024

: 15 Feb 2024 - Don Baldridge

GFL Environmental - 625 - Harrison Hauling

4102 Industrial Pkwy Harrison, MI US 48625

Contact: Glenda Standen gstanden@gflenv.com

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)

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F: