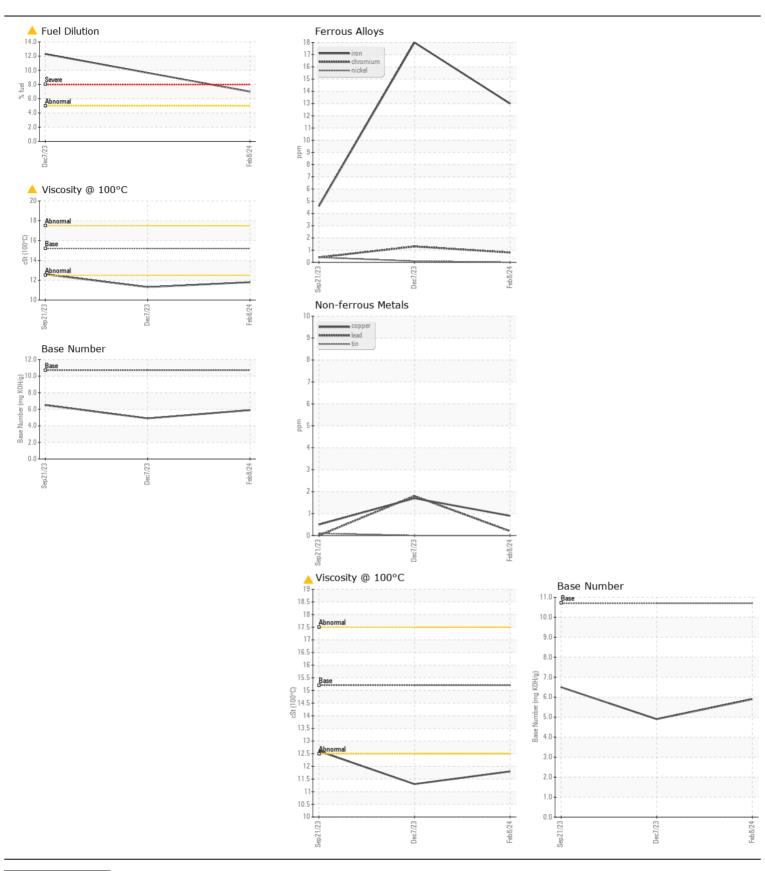
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ABNORMAL

KENWORTH 426142-SW4619

| Diesel Engine Fluid | | | | | | | |
|--|------------------|----------|-------------|-----------|-------------|--------------|-------------|
| MOBIL DELVAC ELITE 15W40 (GAL) | | | | | | | |
| RECOMMENDATION The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| | Sample Number | | Client Info | | GFL0111337 | GFL0095496 | GFL0077249 |
| | Sample Date | | Client Info | | 08 Feb 2024 | 07 Dec 2023 | 21 Sep 2023 |
| | Machine Age | hrs | Client Info | | 16375 | 16042 | 15507 |
| | Oil Age | hrs | Client Info | | 0 | 500 | 500 |
| | Filter Age | hrs | Client Info | | 0 | 500 | 500 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | ABNORMAL | SEVERE | NORMAL |
| WEAR | Iron | ppm | ASTM D5185m | >100 | 13 | 18 | 5 |
| All component week rates are name! | Chromium | ppm | ASTM D5185m | >20 | <1 | 1 | <1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | <1 |
| | Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >20 | 4 | 4 | 3 |
| | Lead | ppm | ASTM D5185m | >40 | <1 | 2 | 0 |
| | Copper | ppm | ASTM D5185m | >330 | <1 | 2 | <1 |
| | Tin | ppm | ASTM D5185m | >15 | 0 | 0 | <1 |
| | Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 6 | 6 | 4 |
| There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. | Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | <1 |
| | Fuel | % | ASTM D3524 | >5 | 7.0 | 1 2.3 | <1.0 |
| | Water | | WC Method | >0.2 | NEG | NEG | NEG |
| | Glycol | | WC Method | | NEG | NEG | NEG |
| | Soot % | % | *ASTM D7844 | >3 | 0.6 | 0.8 | 0.3 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 12.8 | 13.9 | 9.2 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.5 | 23.4 | 17.6 |
| | 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 |
| FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. | Sodium | ppm | ASTM D5185m | | 6 | 0 | 2 |
| | Boron | ppm | ASTM D5185m | | 57 | 39 | 93 |
| | Barium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 113 | 112 | 120 |
| | Manganese | ppm | ASTM D5185m | | 0 | <1 | 0 |
| | Magnesium | ppm | ASTM D5185m | | 630 | 574 | 638 |
| | Calcium | ppm | ASTM D5185m | | 1218 | 1074 | 1134 |
| | Phosphorus | ppm | ASTM D5185m | | 698 | 554 | 693 |
| | Zinc | ppm | ASTM D5185m | | 790 | 721 | 845 |
| | Sulfur | ppm | ASTM D5185m | | 3013 | 3188 | 3355 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.2 | 23.4 | 15.0 |
| | Base Number (BN) | 0 0 | | 10.7 | 5.9 | 4.9 | 6.5 |
| | Visc @ 100°C | cSt | ASTM D445 | 15.2 | <u> </u> | <u> </u> | 12.6 |







Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0111337 Lab Number : 06101353

Tested Unique Number: 10899583

Received : 27 Feb 2024 : 29 Feb 2024 Diagnosed Test Package : FLEET (Additional Tests: PercentFuel)

: 29 Feb 2024 - Wes Davis

GFL Environmental - 981 - Port Arthur Hauling 1000 S Business Park Dr Port Arthur, TX US 77640

Contact: MICHAEL KAY mkay@gflenv.com T: (336)660-9331

* - 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)

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