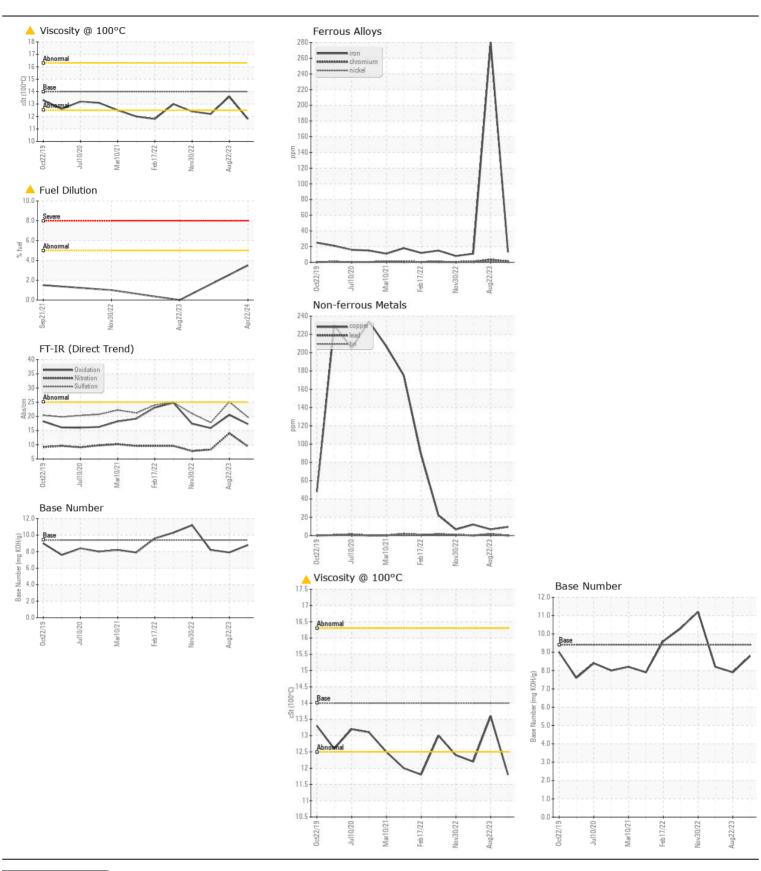
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ABNORMAL

Machine Id

441355 Component

| Diesel Engine | | | | | | | |
|---|------------------------------|----------|---------------|------------|------------------|---------------|-------------------|
| MOBIL DELVAC 1300 SUPER 15W40 (19 QTS) | _ | | | | (- | | |
| RECOMMENDATION We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Hours=4789) | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| | Sample Number | | Client Info | | IL0033820 | IL0030463 | IL0026555 |
| | Sample Date | | Client Info | | 22 Apr 2024 | 22 Aug 2023 | 20 Apr 2023 |
| | Machine Age | mls | Client Info | | 121642 | 102762 | 91103 |
| | Oil Age | mls | Client Info | | 91103 | 11659 | 73951 |
| | Filter Age | mls | Client Info | | 0 | 0 | 0 |
| | Oil Changed | | Client Info | | Changed | N/A | Changed |
| | Filter Changed Sample Status | | Client Info | | Changed ABNORMAL | N/A SEVERE | Changed ATTENTION |
| WEAR | Iron | ppm | ASTM D5185m | >100 | 13 | ▲ 280 | 11 |
| WEAT | Chromium | ppm | ASTM D5185m | | 1 | 3 | <1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | | 0 | <1 | 0 |
| | Titanium | ppm | ASTM D5185m | 7 7 | 0 | <1 | 0 |
| | Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| | Aluminum | ppm | ASTM D5185m | | 3 | <u>^</u> 23 | 6 |
| | Lead | ppm | ASTM D5185m | | 0 | 2 | 0 |
| | Copper | ppm | ASTM D5185m | | 9 | 7 | 12 |
| | Tin | ppm | ASTM D5185m | | 0 | 1 | <1 |
| | 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 | ppm | ASTM D5185m | \25 | 5 | 13 | 6 |
| CONTAININATION | Potassium | ppm | ASTM D5185m | | 7 | 41 | 11 |
| Light fuel dilution occurring. No other contaminants were detected in the oil. | Fuel | % | ASTM D3103111 | | , ▲ 3.5 | <1.0 | <1.0 |
| | Water | 70 | WC Method | | NEG | NEG | NEG |
| | Glycol | | WC Method | 70.L | NEG | 0.0 | NEG |
| | Soot % | % | *ASTM D7844 | >3 | 0.3 | 1.6 | 0.3 |
| | Nitration | Abs/cm | *ASTM D7624 | | 9.4 | 14.1 | 8.3 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | | 19.7 | 25.1 | 17.8 |
| | 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 | Sodium | ppm | ASTM D5185m | | <1 | 24 | 0 |
| TEOD CONDITION | Boron | ppm | ASTM D5185m | 0 | 4 | 4 | 7 |
| Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. | Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | | 63 | 66 | 61 |
| | Manganese | ppm | ASTM D5185m | | 0 | 2 | <1 |
| | Magnesium | ppm | ASTM D5185m | 0 | 931 | 991 | 936 |
| | Calcium | ppm | ASTM D5185m | | 1095 | 1149 | 1146 |
| | Phosphorus | ppm | ASTM D5185m | | 1060 | 1015 | 1036 |
| | Zinc | ppm | ASTM D5185m | | 1255 | 1296 | 1279 |
| | Sulfur | ppm | ASTM D5185m | | 3524 | 3244 | 3861 |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.3 | 20.5 | 15.9 |
| | Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.8 | 7.9 | 8.2 |
| | | | | | | | |







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : IL0033820 Lab Number : 06235408

Received **Tested** Unique Number : 11124242

Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 15 Jul 2024 : 16 Jul 2024 : 16 Jul 2024 - Don Baldridge

RUSH TRUCK LEASING - CHARLOTTE IDEALEASE 1333 AMERON DR CHARLOTTE, NC US 28206

Contact: JERRY DIXON dixonj@rushenterprises.com T: (704)333-4507

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)

F: (704)333-4508