WEAR CONTAMINATION FLUID CONDITION

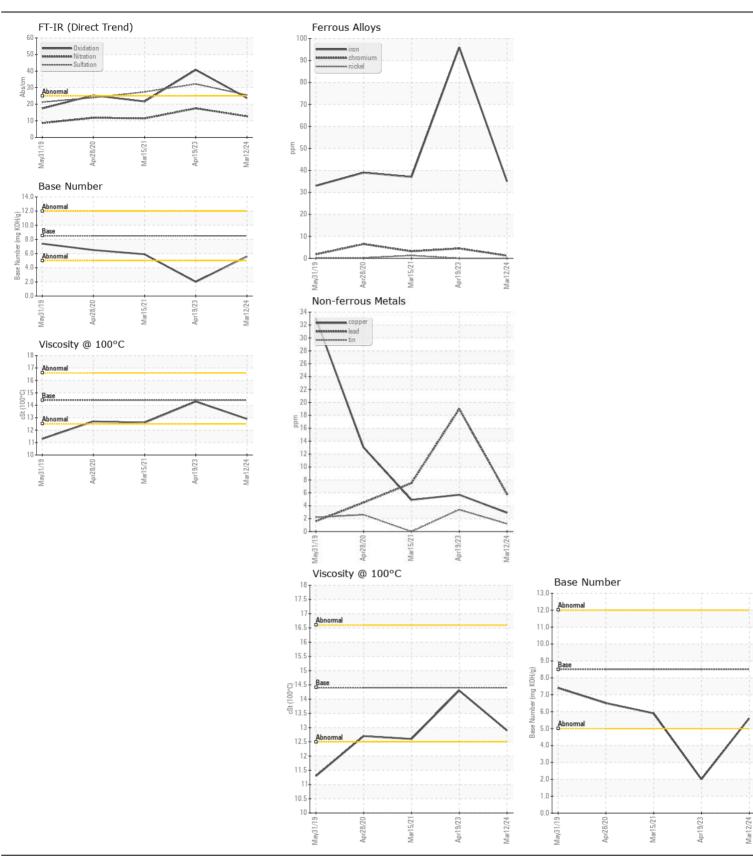
NORMAL NORMAL NORMAL

Machine Id

461927

Component
Diesel Engine

| RECOMMENDATION   | Test             | UOM      | Method      | Limit/Abn | Current     | History1     | History2   |
|--|------------------|----------|-------------|-----------|-------------|--------------|------------|
|  | Sample Number    |          | Client Info |           | IL0034946   | -            | IL0018309  |
| Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. | Sample Date      |          | Client Info |           | 12 Mar 2024 | 19 Apr 2023  | 15 Mar 202 |
|  | Machine Age      | mls      | Client Info |           | 224401      | 183496       | 99125      |
|  | Oil Age          | mls      | Client Info |           | 40905       | 47896        | 36000      |
|  | Filter Age       | mls      | Client Info |           | 40905       | 0            | 36000      |
|  | Oil Changed      |          | Client Info |           | Changed     | Changed      | Changed    |
|  | Filter Changed   |          | Client Info |           | Changed     | Changed      | Changeo    |
|  | Sample Status    |          |             |           | NORMAL      | ABNORMAL     | ATTENTIO   |
| VEAR   | Iron             | ppm      | ASTM D5185m | >100      | 35          | <u></u> 96   | 37         |
|  | Chromium         | ppm      | ASTM D5185m | >20       | 1           | 4            | 3          |
| Metal levels are typical for a new component breaking in.  | Nickel           | ppm      | ASTM D5185m |           | 0           | 0            | 1          |
|  | Titanium         | ppm      | ASTM D5185m |           | 0           | <1           | <1         |
|  | Silver           | ppm      | ASTM D5185m | >3        | 0           | <1           | <1         |
|  | Aluminum         | ppm      | ASTM D5185m | >20       | 6           | 23           | 31         |
|  | Lead             | ppm      | ASTM D5185m | >40       | 6           | 19           | 8          |
|  | Copper           | ppm      | ASTM D5185m | >330      | 3           | 6            | 5          |
|  | Tin              | ppm      | ASTM D5185m | >15       | 1           | 3            | 0          |
|  | Vanadium         | ppm      | ASTM D5185m |           | 0           | 0            | <1         |
|  | White Metal      | scalar   | *Visual     | NONE      | NONE        | NONE         | NONE       |
|  | Yellow Metal     | scalar   | *Visual     | NONE      | NONE        | NONE         | NONE       |
| CONTAMINATION  | Silicon          | ppm      | ASTM D5185m | >25       | 5           | 11           | 8          |
|  | Potassium        | ppm      | ASTM D5185m | >20       | 10          | 51           | 68         |
| There is no indication of any contamination in the oil.  | Fuel             |          | WC Method   | >5        | <1.0        | <1.0         | <1.0       |
|  | Water            |          | WC Method   | >0.2      | NEG         | NEG          | NEG        |
|  | Glycol           |          | WC Method   |           | NEG         | NEG          | NEG        |
|  | Soot %           | %        | *ASTM D7844 | >3        | 0.8         | 1.4          | 0.5        |
|  | Nitration        | Abs/cm   | *ASTM D7624 | >20       | 12.7        | 17.5         | 11.4       |
|  | Sulfation        | Abs/.1mm | *ASTM D7415 | >30       | 25.5        | 32.2         | 27.4       |
|  | 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        | NORN       |
|  | Odor             | scalar   | *Visual     | NORML     | NORML       | NORML        | NORM       |
|  | Emulsified Water | scalar   | *Visual     | >0.2      | NEG         | NEG          | NEG        |
| FLUID CONDITION  | Sodium           | ppm      | ASTM D5185m | >158      | 2           | 6            | 4          |
| The DN recult indicates that there is quitable alkalinity remaining in the   | Boron            | ppm      | ASTM D5185m | 250       | 6           | 17           | 22         |
| 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 | 10        | 0           | 0            | 0          |
|  | Molybdenum       | ppm      | ASTM D5185m | 100       | 69          | 47           | 11         |
|  | Manganese        | ppm      | ASTM D5185m |           | <1          | 2            | 1          |
|  | Magnesium        | ppm      | ASTM D5185m |           | 979         | 611          | 757        |
|  | Calcium          | ppm      |             | 3000      | 1217        | 1700         | 1380       |
|  | Phosphorus       | ppm      | ASTM D5185m |           | 1069        | 794          | 720        |
|  | Zinc             | ppm      | ASTM D5185m |           | 1308        | 1006         | 859        |
|  | Sulfur           | ppm      | ASTM D5185m |           | 3357        | 2946         | 2445       |
|  | Oxidation        | Abs/.1mm | *ASTM D7414 |           | 23.7        | 40.7         | 21.6       |
|  | Base Number (BN) | 0 0      |             |           | 5.6         | <u>^</u> 2.0 | 5.9        |
|  | Visc @ 100°C     | cSt      | ASTM D445   | 144       | 12.9        | 14.3         | 12.6       |







Laboratory Sample No.

: IL0034946 Lab Number : 06158288 Unique Number : 10993711

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Apr 2024

**Tested** : 24 Apr 2024 : 24 Apr 2024 - Wes Davis Diagnosed

**RUSH TRUCK LEASING - CLEVELAND IDEALEASE** 

5 ACORN DR OAKWOOD VILLAGE, OH

US 44146-5550

Contact: JOHN FOSTER FosterJ4@RushEnterprises.com

T: (440)359-7000 F: (440)439-5657

Test Package : FLEET Certificate L2367 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)