



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
Y0872
Component
Diesel Engine
Fluid
{not provided} (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Hours=1382)

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | IL0033862 | IL0030545 | --- |
| Sample Date | | Client Info | | 20 May 2024 | 27 Nov 2023 | --- |
| Machine Age | mls | Client Info | | 35587 | 18214 | --- |
| Oil Age | mls | Client Info | | 35587 | 0 | --- |
| Filter Age | mls | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Changed | N/A | --- |
| Filter Changed | | Client Info | | Changed | N/A | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 51 | 36 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 2 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >4 | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 10 | 6 | --- |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >330 | 10 | 1 | --- |
| Tin | ppm | ASTM D5185m | >15 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

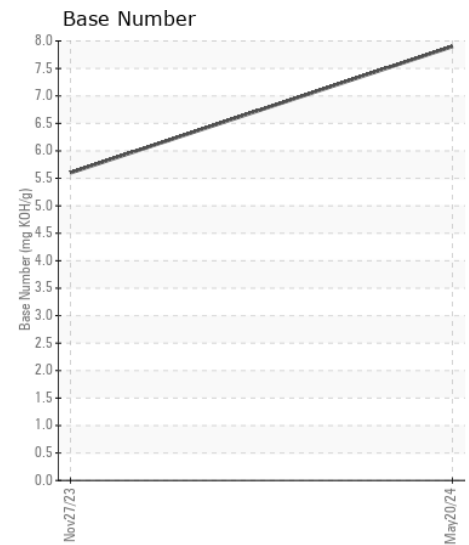
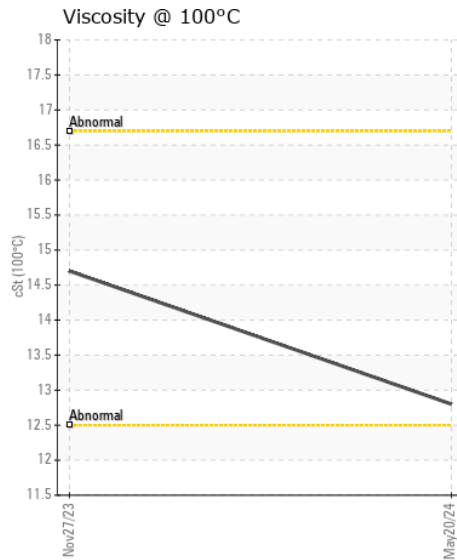
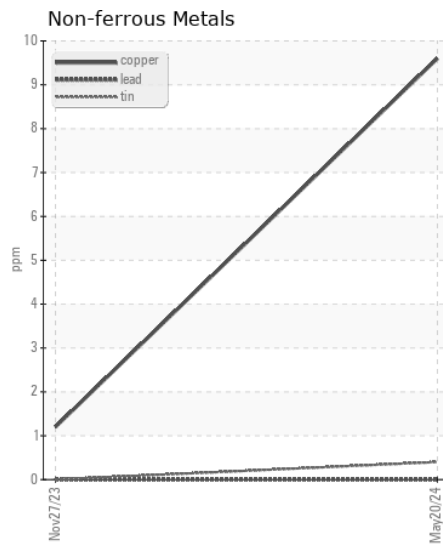
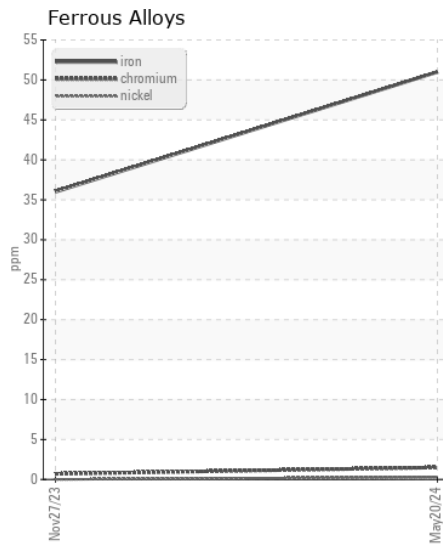
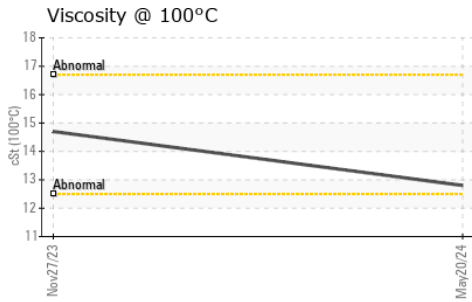
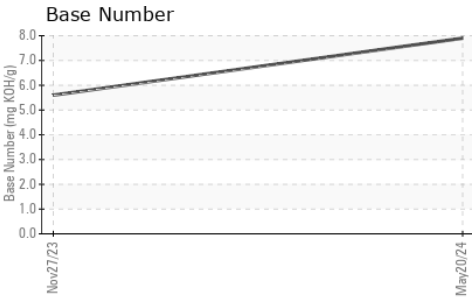
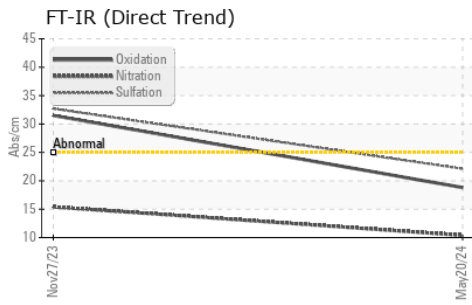
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 12 | 7 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 29 | 8 | --- |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.8 | 0.3 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.4 | 15.4 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.1 | 32.7 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | --- |

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-----|-------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 3 | 10 | --- |
| Boron | ppm | ASTM D5185m | | 6 | 32 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 61 | 57 | --- |
| Manganese | ppm | ASTM D5185m | | 2 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | | 926 | 454 | --- |
| Calcium | ppm | ASTM D5185m | | 1163 | 2496 | --- |
| Phosphorus | ppm | ASTM D5185m | | 1026 | 1218 | --- |
| Zinc | ppm | ASTM D5185m | | 1237 | 1466 | --- |
| Sulfur | ppm | ASTM D5185m | | 3346 | 3744 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.8 | 31.5 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 7.9 | 5.6 | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 12.8 | 14.7 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0033862
Lab Number : 06212827
Unique Number : 11085691
Test Package : FLEET

Received : 17 Jun 2024
Tested : 19 Jun 2024
Diagnosed : 19 Jun 2024 - Angela Borella

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

Contact: JERRY DIXON
 dixonj@rushenterprises.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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