



| | |
|-----------------|------------------|
| WEAR | NORMAL |
| CONTAMINATION | ABNORMAL |
| FLUID CONDITION | ATTENTION |

Machine Id
7237
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | IL0029415 | --- | --- |
| Sample Date | | Client Info | | 09 Feb 2024 | --- | --- |
| Machine Age | mls | Client Info | | 0 | --- | --- |
| Oil Age | mls | Client Info | | 0 | --- | --- |
| Filter Age | mls | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185m | >100 | 43 | --- | --- |
| Chromium | ppm | ASTM D5185m | >20 | 1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >4 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 8 | --- | --- |
| Lead | ppm | ASTM D5185m | >40 | 4 | --- | --- |
| Copper | ppm | ASTM D5185m | >330 | 19 | --- | --- |
| Tin | ppm | ASTM D5185m | >15 | 2 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

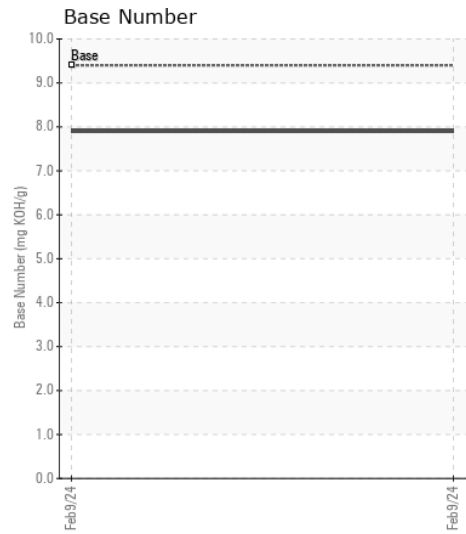
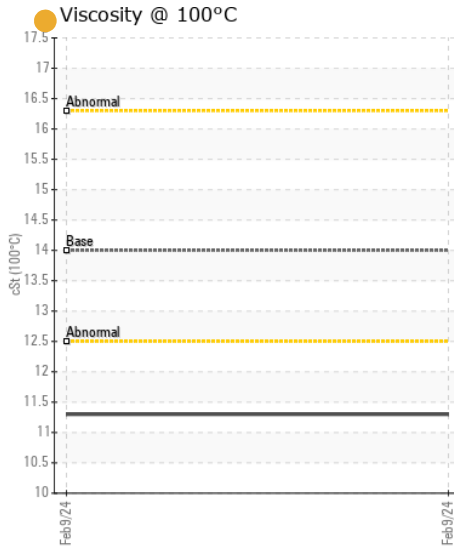
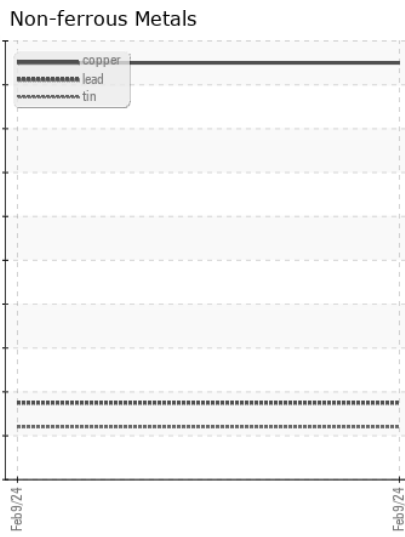
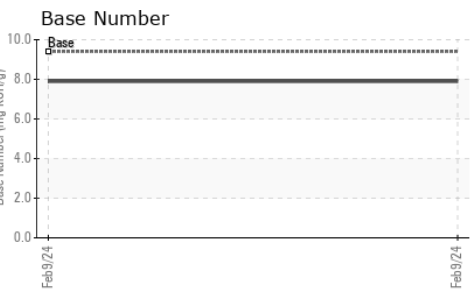
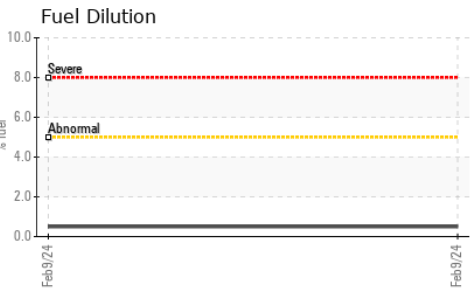
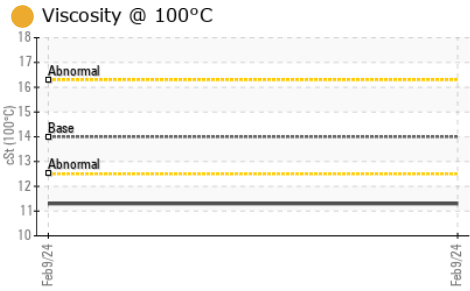
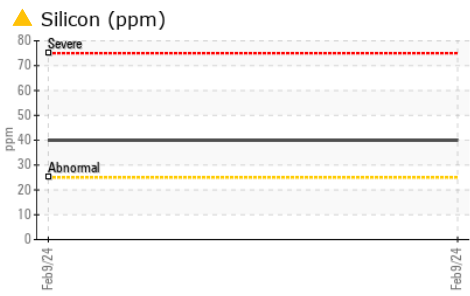
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

| | | | | | | |
|------------------|----------|-------------|-------|--------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >25 | ▲ 40 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 27 | --- | --- |
| Fuel | % | ASTM D3524 | >5 | 0.5 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.3 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.6 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | --- | --- |

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

| | | | | | | |
|------------------|----------|-------------|-----|---------------|-----|-----|
| Sodium | ppm | ASTM D5185m | | 7 | --- | --- |
| Boron | ppm | ASTM D5185m | 0 | 79 | --- | --- |
| Barium | ppm | ASTM D5185m | 0 | 3 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 70 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 4 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 0 | 474 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1696 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 1001 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1205 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3257 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.3 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 7.9 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14 | ● 11.3 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0029415 **Received** : 18 Mar 2024
Lab Number : 06121367 **Tested** : 20 Mar 2024
Unique Number : 10930200 **Diagnosed** : 20 Mar 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

RUSH TRUCK LEASING - BOISE IDEALEASE
 770 WEST AMITY ROAD
 BOISE, ID
 US 83705
 Contact: MATT BORCHARDT
 borchardtm@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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