



PacLease

OIL ANALYSIS REPORT

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

Machine Id
857-4240

Component
Diesel Engine

Fluid
CHEVRON DELO 400 XLE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | RPL0014035 | RPL0005638 | --- |
| Sample Date | | Client Info | | 12 Dec 2023 | 20 Nov 2022 | --- |
| Machine Age | hrs | Client Info | | 940 | 256285 | --- |
| Oil Age | hrs | Client Info | | 0 | 40000 | --- |
| Filter Age | hrs | Client Info | | 0 | 40000 | --- |
| Oil Changed | | Client Info | | N/A | Changed | --- |
| Filter Changed | | Client Info | | N/A | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 88 | 34 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 3 | 2 | --- |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 21 | 4 | --- |
| Lead | ppm | ASTM D5185m | >40 | 6 | 5 | --- |
| Copper | ppm | ASTM D5185m | >330 | 11 | 2 | --- |
| Tin | ppm | ASTM D5185m | >15 | 2 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

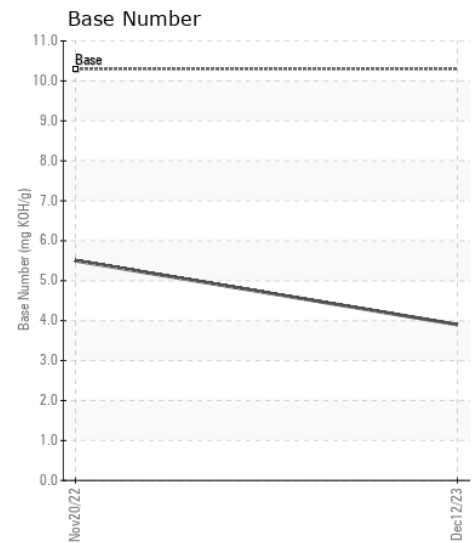
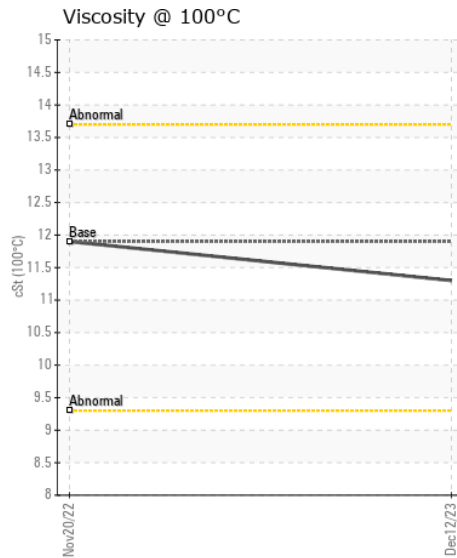
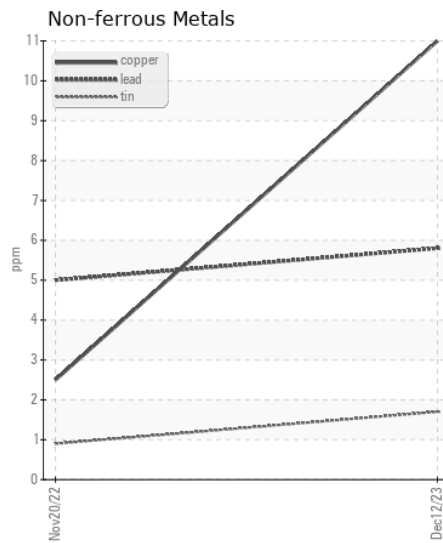
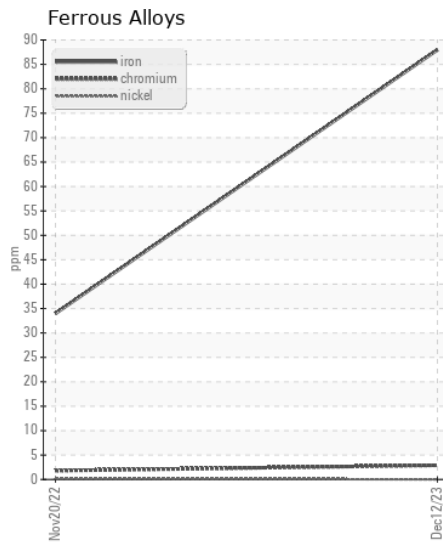
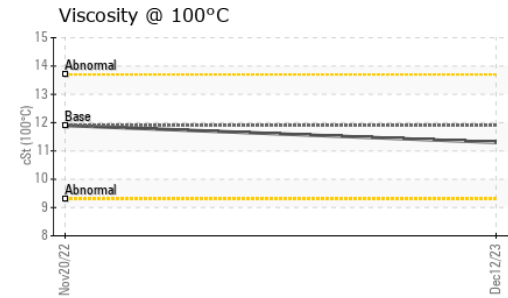
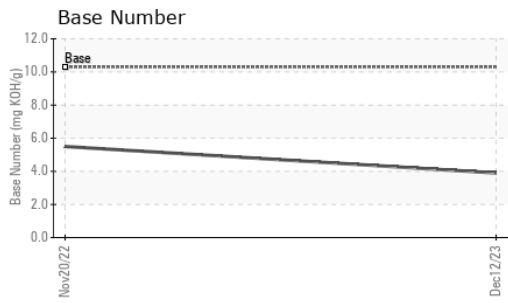
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 17 | 7 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 66 | 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 | 1 | 0.5 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 14.2 | 13.0 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 31.2 | 29.1 | --- |
| 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 | | 4 | 3 | --- |
| Boron | ppm | ASTM D5185m | | 8 | 15 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 9 | 12 | --- |
| Manganese | ppm | ASTM D5185m | | 1 | 1 | --- |
| Magnesium | ppm | ASTM D5185m | | 832 | 767 | --- |
| Calcium | ppm | ASTM D5185m | 2900 | 1536 | 1469 | --- |
| Phosphorus | ppm | ASTM D5185m | 1100 | 769 | 736 | --- |
| Zinc | ppm | ASTM D5185m | 1200 | 960 | 916 | --- |
| Sulfur | ppm | ASTM D5185m | 4000 | 2939 | 3409 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 28.8 | 24.8 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.3 | 3.9 | 5.5 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 11.9 | 11.3 | 11.9 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0014035 **Received** : 10 Jan 2024
Lab Number : 06056277 **Diagnosed** : 11 Jan 2024
Unique Number : 10822226 **Diagnostician** : Angela Borella
Test Package : FLEET

RTL PACLEASE - 7001 - Houston
 6300 N. Loop East
 Houston, TX
 US 77026
 Contact: RODNEY BRIGGS
 briggsr@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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