



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

Area
RICH MCCARTY
Machine Id
RICH MCCARTY
Component
Port Genset
Fluid
CHEVRON DELO 710 LS (6 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 | | MW0057500 | MW0057508 | MW0057652 |
| Sample Date | | Client Info | | 16 Jul 2024 | 30 Jun 2024 | 15 Apr 2024 |
| Machine Age | hrs | Client Info | | 51378 | 44707 | 50154 |
| Oil Age | hrs | Client Info | | 492 | 264 | 288 |
| Filter Age | hrs | Client Info | | 492 | 264 | 288 |
| Oil Changed | | Client Info | | N/A | Not Changd | Changed |
| Filter Changed | | Client Info | | N/A | Not Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >50 | 4 | 4 | 6 |
| Chromium | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 1 | 0 |
| Silver | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >12 | <1 | 2 | 1 |
| Lead | ppm | ASTM D5185m | >17 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >70 | 0 | 2 | 0 |
| Tin | ppm | ASTM D5185m | >15 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

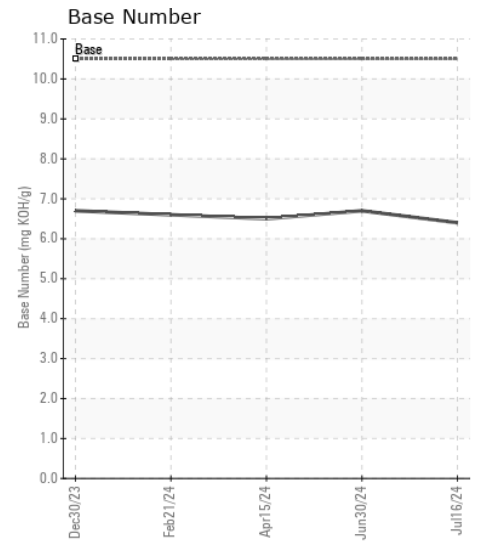
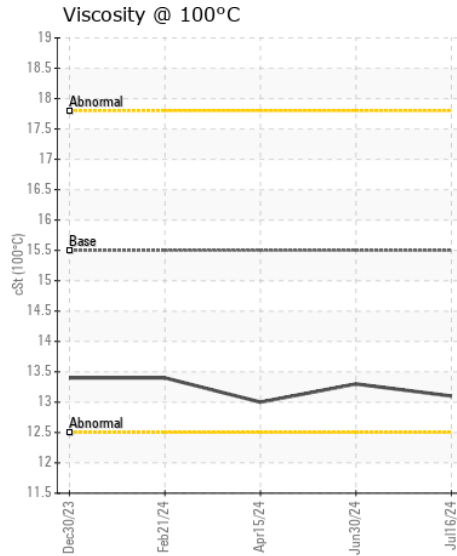
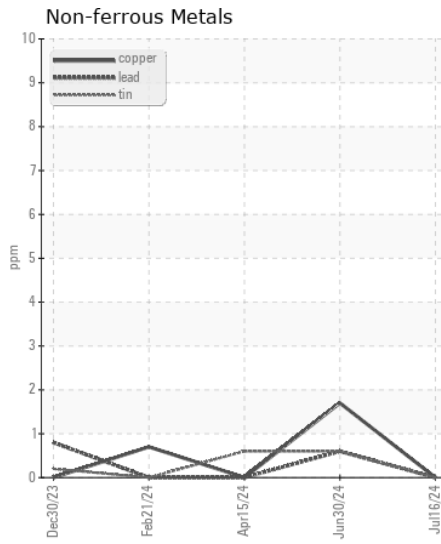
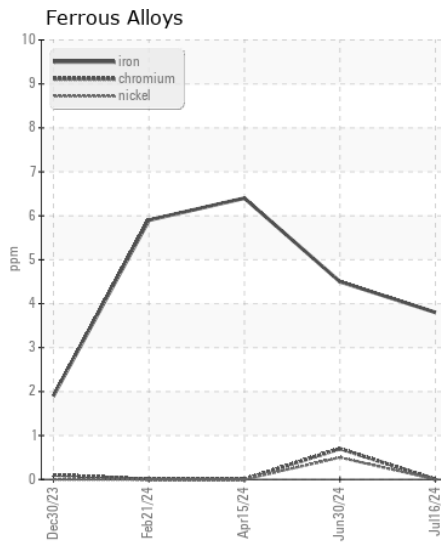
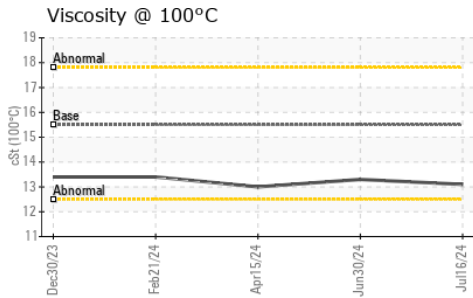
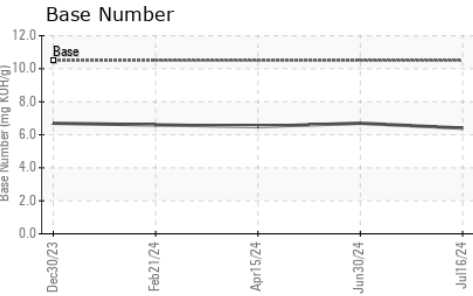
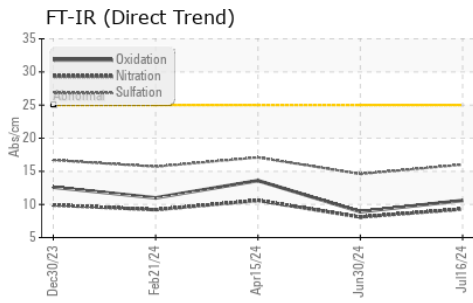
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 2 | 3 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 3 | 0 |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | | 0.1 | 0.1 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.3 | 8.1 | 10.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 16.0 | 14.6 | 17.1 |
| 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 | >0.1 | NEG | 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 | 3 |
| Boron | ppm | ASTM D5185m | | 36 | 42 | 43 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 42 | 46 | 46 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 8 | 9 | 3 |
| Calcium | ppm | ASTM D5185m | | 3158 | 3505 | 3480 |
| Phosphorus | ppm | ASTM D5185m | | 0 | 8 | 0 |
| Zinc | ppm | ASTM D5185m | | 2 | 2 | 0 |
| Sulfur | ppm | ASTM D5185m | | 2160 | 2318 | 2383 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 10.6 | 8.9 | 13.6 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.5 | 6.4 | 6.7 | 6.5 |
| Visc @ 100°C | cSt | ASTM D445 | 15.5 | 13.1 | 13.3 | 13.0 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0057500
Lab Number : 06241511
Unique Number : 11130345
Test Package : MAR 2

Received : 19 Jul 2024
Tested : 22 Jul 2024
Diagnosed : 22 Jul 2024 - Wes Davis

AMERICAN RIVER TRANSPORTATION CO.
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 ST. LOUIS, MO
 US 63111
 Contact: BRIAN GRIEWING
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 F: (314)481-5278

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)