



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

Machine Id
LOUISIANA PARADISE
Component
Port Genset
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | MW0057337 | MW0052246 | MW0042785 |
| Sample Date | | Client Info | | 21 Feb 2024 | 27 Dec 2023 | 09 Oct 2023 |
| Machine Age | hrs | Client Info | | 32098 | 31402 | 30341 |
| Oil Age | hrs | Client Info | | 1059 | 1050 | 1667 |
| Filter Age | hrs | Client Info | | 691 | 1050 | 1750 |
| Oil Changed | | Client Info | | Changed | Not Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >50 | 13 | 11 | 13 |
| Chromium | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 10 | 10 | 11 |
| Silver | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >12 | 2 | 2 | 1 |
| Lead | ppm | ASTM D5185m | >17 | 6 | 6 | 15 |
| Copper | ppm | ASTM D5185m | >70 | <1 | 2 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 1 | 1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

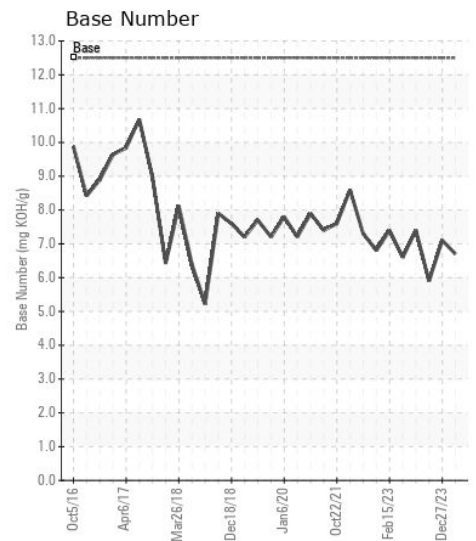
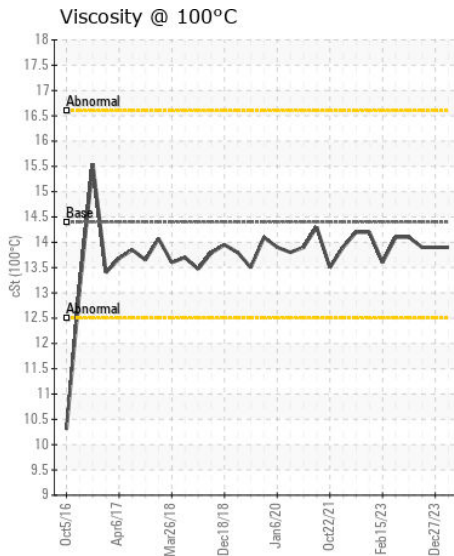
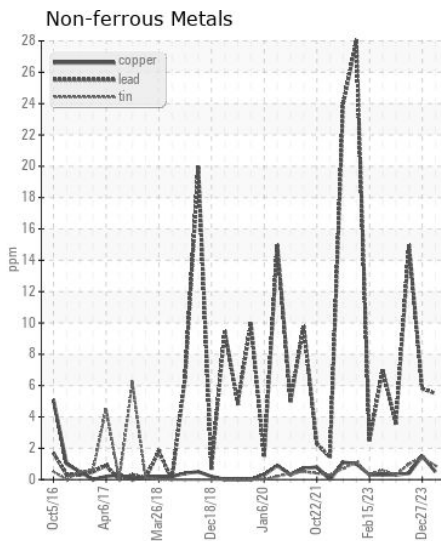
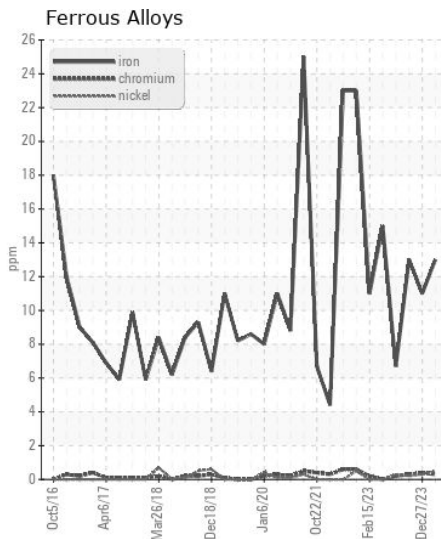
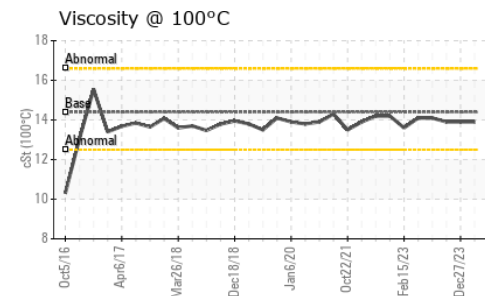
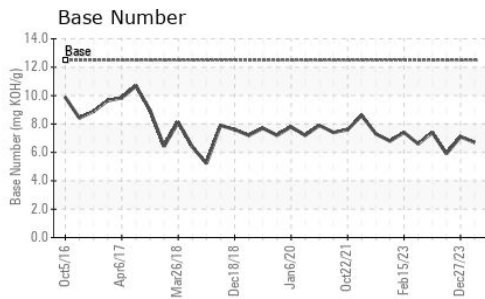
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 4 | 5 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 9 | 5 | 4 |
| 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 | | 0.2 | 0.2 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.2 | 9.1 | 9.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.7 | 20.4 | 21.3 |
| 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 | | 21 | 19 | 5 |
| Boron | ppm | ASTM D5185m | 151 | 50 | 61 | 28 |
| Barium | ppm | ASTM D5185m | 0.4 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 250 | 25 | 25 | 24 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | 633 | 578 | 513 |
| Calcium | ppm | ASTM D5185m | 2046 | 2067 | 1975 | 1736 |
| Phosphorus | ppm | ASTM D5185m | 1043 | 879 | 899 | 773 |
| Zinc | ppm | ASTM D5185m | 943 | 1141 | 1093 | 923 |
| Sulfur | ppm | ASTM D5185m | 5012 | 3772 | 3779 | 3081 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.5 | 16.1 | 17.0 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 12.5 | 6.7 | 7.1 | 5.9 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.9 | 13.9 | 13.9 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0057337
Lab Number : 06104139
Unique Number : 10902369
Test Package : MAR 2

Received : 29 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 02 Mar 2024 - Don Baldrige

AMERICAN RIVER TRANSPORTATION CO
 8400 RIVER RD, PO BOX 656
 WESTWEGO, LA
 US 70094-2317
 Contact: KEVIN CHIASSON
 kevin.chiasson@adm.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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F: