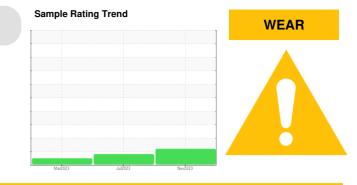


NOT GIVEN (--- GAL)

Component Lube System

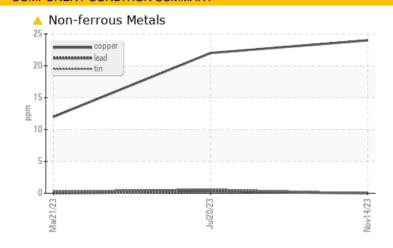
Elui

PROBLEM SUMMARY



COMPONENT CONDITION SUMMARY

LIM_MLU3 LIM_MLU3



RECOMMENDATION

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

| PROBLEMATIC TEST RESULTS | | | | | | | | | | |
|--------------------------|--------|-------------|------|----------|----------|--------|--|--|--|--|
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL | | | | |
| Copper | ppm | ASTM D5185m | >20 | <u> </u> | <u> </u> | 12 | | | | |
| Debris | scalar | *Visual | NONE | 🔺 MODER | LIGHT | LIGHT | | | | |

Customer Id: ENELIM Sample No.: RP0032530 Lab Number: 06026616 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

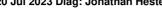
To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

20 Jul 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

21 Mar 2023 Diag: Angela Borella



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.







OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

LIM_MLU3 LIM_MLU3

Lube System Fluid NOT GIVEN (--- GAL)

DIAGNOSIS

A Recommendation

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|----------------------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | RP0032530 | RP0027024 | RP0032841 |
| | | | | 14 Nov 2023 | 20 Jul 2023 | 21 Mar 2023 |
| Sample Date | la va | Client Info | | | | |
| Machine Age | hrs | Client Info Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | U N/A | 0 N/A | 0 N/A |
| Oil Changed | | Client Inio | | ABNORMAL | ABNORMAL | NORMAL |
| Sample Status | | | | - | - | - |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >20 | <u> </u> | <u> </u> | 12 |
| Tin | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 71 | 73 | 66 |
| Calcium | ppm | ASTM D5185m | | 11 | 10 | 14 |
| Phosphorus | ppm | ASTM D5185m | | 45 | 47 | 129 |
| Zinc | ppm | ASTM D5185m | | 49 | 50 | 83 |
| CONTAMINANTS | 6 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 7 | 7 | 8 |
| Sodium | ppm | ASTM D5185m | | 2 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 1 | 0 |
| Water | % | ASTM D6304 | >0.05 | 0.012 | 0.024 | 0.015 |
| ppm Water | ppm | ASTM D6304 | >500 | 129 | 248.0 | 150.2 |
| FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.31 | 0.33 | 0.35 |
| VISUAL | | method | limit/base | current | history1 | history2 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | | LIGHT | LIGHT |
| 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 | >0.05 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | >0.05 | | | |
| | Jouran | Vioudi | | | | Page 3 of |



OIL ANALYSIS REPORT

