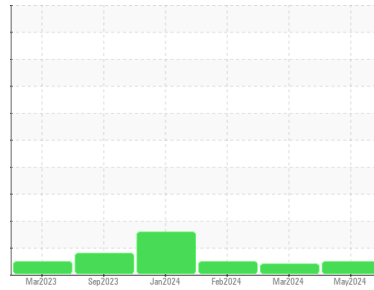




OIL ANALYSIS REPORT

Area
PGWS 150
Machine Id
LE ROI HUM-VRU-191B - MARKEST ENERGY
Component
Compressor

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | UCH06194153 | UCH06133500 | UCH06104412 |
| Sample Date | Client Info | | 29 May 2024 | 12 Mar 2024 | 23 Feb 2024 |
| Machine Age | hrs | Client Info | 0 | 41645 | 41645 |
| Oil Age | hrs | Client Info | 0 | 1228 | 1228 |
| Oil Changed | Client Info | | N/A | Not Changd | Not Changd |
| Sample Status | | | NORMAL | ATTENTION | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | 38 | 1 | 34 |
| Chromium | ppm | ASTM D5185m >10 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | <1 | 1 | 0 |
| Titanium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >25 | 2 | 1 | 0 |
| Lead | ppm | ASTM D5185m >25 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m >50 | 1 | 0 | <1 |
| Tin | ppm | ASTM D5185m >15 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | <1 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 150 | 0 | 0 | 1 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | 1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m 10 | <1 | 0 | 2 |
| Calcium | ppm | ASTM D5185m 70 | 0 | 0 | 4 |
| Phosphorus | ppm | ASTM D5185m 2000 | 1016 | 1128 | 1067 |
| Zinc | ppm | ASTM D5185m 50 | 0 | 0 | <1 |
| Sulfur | ppm | ASTM D5185m 20000 | 3904 | 2535 | 3701 |

CONTAMINANTS

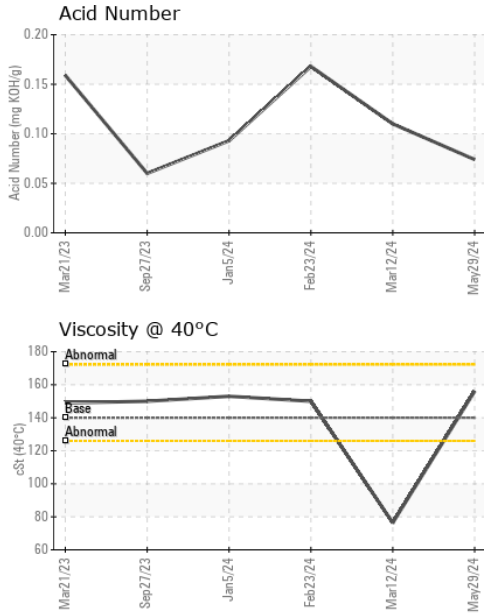
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | 2 | 2 | 0 |
| Sodium | ppm | ASTM D5185m | 17 | 7 | 7 |
| Potassium | ppm | ASTM D5185m >20 | 2 | 3 | 3 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.074 | 0.11 | 0.168 |



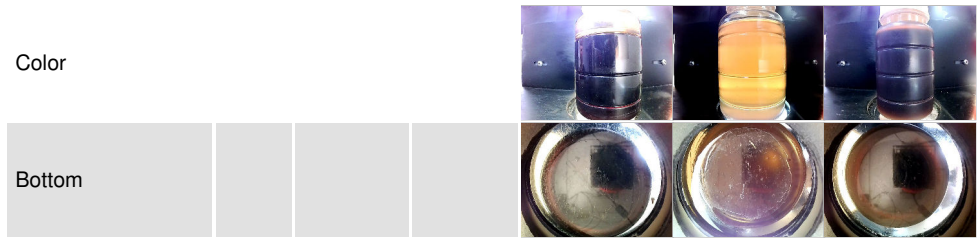
OIL ANALYSIS REPORT



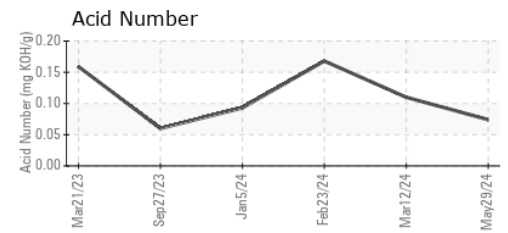
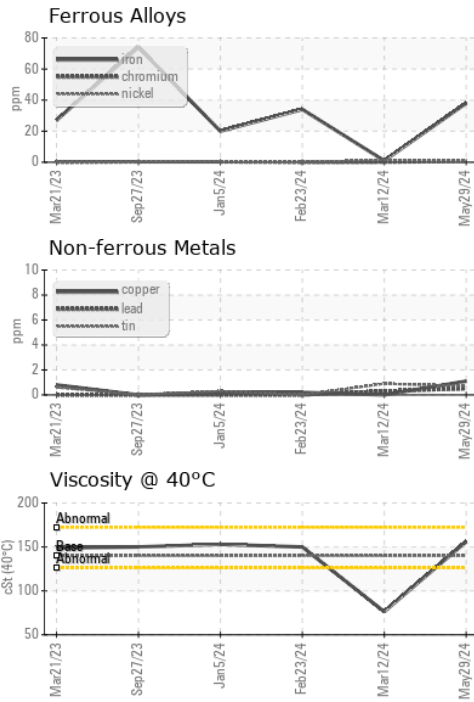
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | LIGHT | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| Visc @ 40°C | cSt | ASTM D445 | 140 | 156 | 76.36 | 150 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH06194153
Lab Number : 06194153
Unique Number : 11056276
Test Package : IND 2
Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Wes Davis

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