



OIL ANALYSIS REPORT

Sample Rating Trend

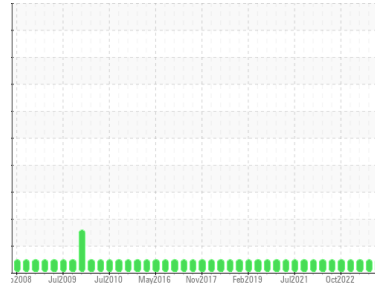
NORMAL



Machine Id
WP11 CT02 (S/N 890185068.03.09.001)

Component
Gearbox

Fluid
SHELL OMALA 220 (5 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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 | | WC0630951 | WC0630962 | WC0749798 |
| Sample Date | Client Info | | 30 Jul 2023 | 05 Jun 2023 | 13 Feb 2023 |
| Machine Age | yrs | Client Info | 20 | 20 | 20 |
| Oil Age | yrs | Client Info | 1 | 1 | 0 |
| Oil Changed | Client Info | | Not Changed | Not Changed | Not Changed |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >200 | 43 | 46 | 45 |
| Chromium | ppm | ASTM D5185m >15 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m >15 | 0 | 1 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >25 | 0 | <1 | 0 |
| Lead | ppm | ASTM D5185m >100 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m >200 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185m >25 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 4.4 | 7 | 6 | 7 |
| Barium | ppm | ASTM D5185m 0.0 | 2 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 0 | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m 0 | <1 | 1 | <1 |
| Calcium | ppm | ASTM D5185m 0 | 0 | 1 | <1 |
| Phosphorus | ppm | ASTM D5185m 215 | 253 | 262 | 246 |
| Zinc | ppm | ASTM D5185m 0 | 30 | 27 | 33 |
| Sulfur | ppm | ASTM D5185m 7039 | 14317 | 16244 | 14562 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >50 | 5 | 4 | 5 |
| Sodium | ppm | ASTM D5185m | 0 | 1 | <1 |
| Potassium | ppm | ASTM D5185m >20 | <1 | 2 | <1 |

FLUID DEGRADATION

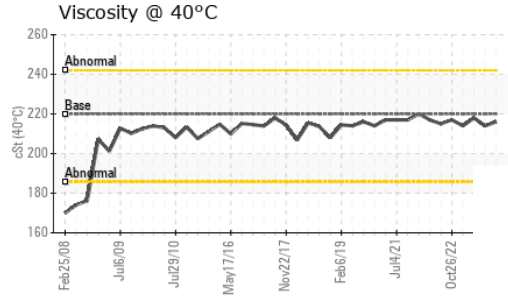
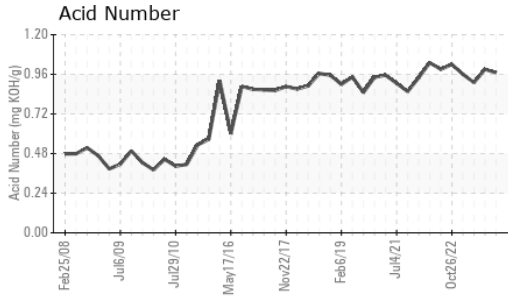
| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.97 | 0.99 | 0.91 |

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 | NONE | LIGHT | VLITE |
| 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 >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

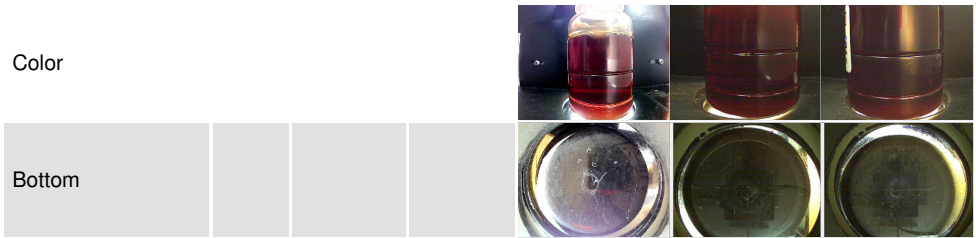


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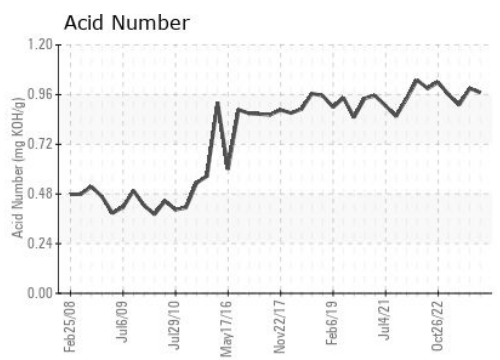
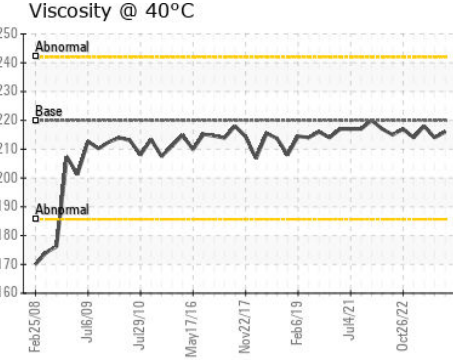
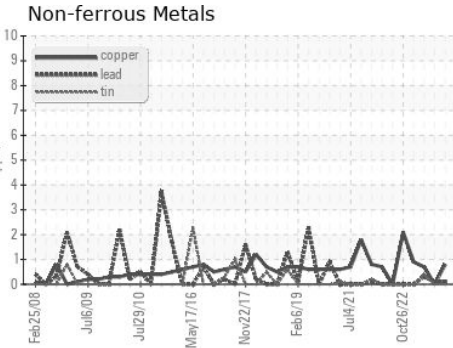
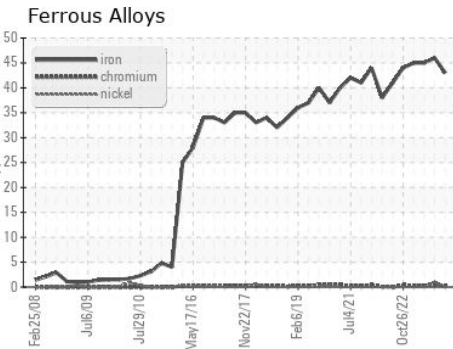


| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 220 | 216 | 214 | 218 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0630951 **Received** : 29 Aug 2023
Lab Number : 05937422 **Diagnosed** : 30 Aug 2023
Unique Number : 10622693 **Diagnostician** : Wes Davis
Test Package : IND 2

LEPRINO FOODS - WAVERLY
 400 LEPRINO AVE
 WAVERLY, NY
 US 14892
 Contact: ED TWINING
 ETWINING@LEPRINOFOODS.COM
 T:
 F: (570)882-7290

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)