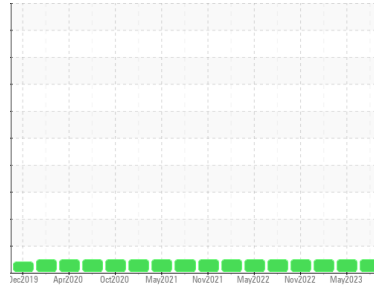




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
LIM4_U2720 LIM4_U2720_P2720

Component
Non-Drive End Pump

Fluid
ROYAL PURPLE SYNFILM GT 32 (--- 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 | RP0029419 | RP0029434 | RP0021263 |
| Sample Date | Client Info | 18 Jul 2023 | 18 May 2023 | 16 Jan 2023 |
| Machine Age | hrs Client Info | 0 | 0 | 0 |
| Oil Age | hrs Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|---------------------|--------------|----------|----------|
| Iron | ppm ASTM D5185m >90 | <1 | <1 | <1 |
| Chromium | ppm ASTM D5185m >5 | 0 | 0 | 0 |
| Nickel | ppm ASTM D5185m >5 | 0 | <1 | 0 |
| Titanium | ppm ASTM D5185m >3 | 0 | 0 | 0 |
| Silver | ppm ASTM D5185m >3 | 0 | 0 | 0 |
| Aluminum | ppm ASTM D5185m >7 | <1 | <1 | <1 |
| Lead | ppm ASTM D5185m >12 | 0 | 0 | 0 |
| Copper | ppm ASTM D5185m >30 | 1 | <1 | 1 |
| Tin | ppm ASTM D5185m >9 | <1 | <1 | <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 | 0 | 0 | 0 |
| Barium | ppm ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm ASTM D5185m | 0 | 0 | 0 |
| Manganese | ppm ASTM D5185m | 0 | <1 | 0 |
| Magnesium | ppm ASTM D5185m | 69 | 68 | 63 |
| Calcium | ppm ASTM D5185m | <1 | 0 | 0 |
| Phosphorus | ppm ASTM D5185m | 2 | 4 | 27 |
| Zinc | ppm ASTM D5185m | 0 | 0 | 0 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|---------------------|--------------|----------|----------|
| Silicon | ppm ASTM D5185m >60 | 2 | 1 | 2 |
| Sodium | ppm ASTM D5185m | <1 | 1 | <1 |
| Potassium | ppm ASTM D5185m >20 | 0 | 2 | 0 |
| Water | % ASTM D6304 | 0.014 | 0.007 | 0.009 |
| ppm Water | ppm ASTM D6304 >.1 | 149.1 | 77.4 | 97.4 |

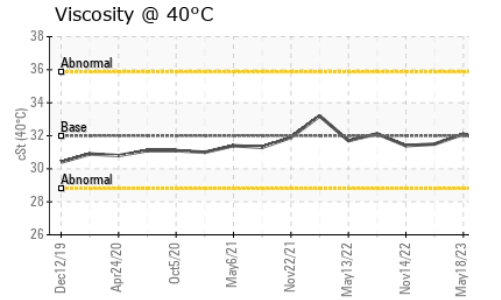
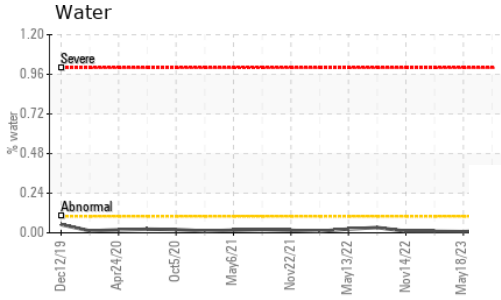
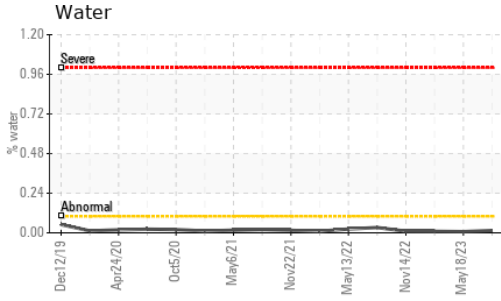
FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|---------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D8045 | 0.36 | 0.34 | 0.36 |

VISUAL

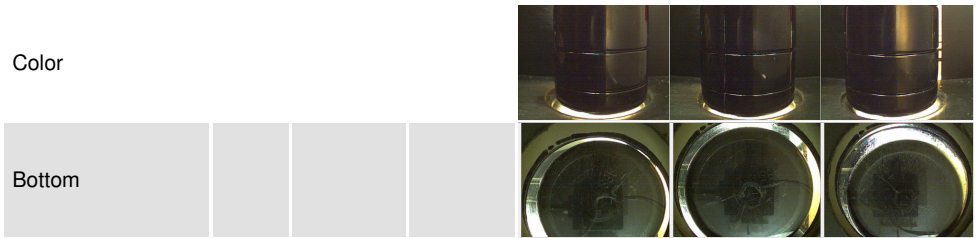
| method | limit/base | current | history1 | history2 |
|------------------|----------------------|--------------|----------|----------|
| White Metal | scalar *Visual NONE | NONE | NONE | NONE |
| Yellow Metal | scalar *Visual NONE | NONE | NONE | NONE |
| Precipitate | scalar *Visual NONE | NONE | NONE | NONE |
| Silt | scalar *Visual NONE | NONE | NONE | NONE |
| Debris | scalar *Visual NONE | NONE | 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 | NEG | NEG | NEG |
| Free Water | scalar *Visual | NEG | NEG | NEG |

OIL ANALYSIS REPORT

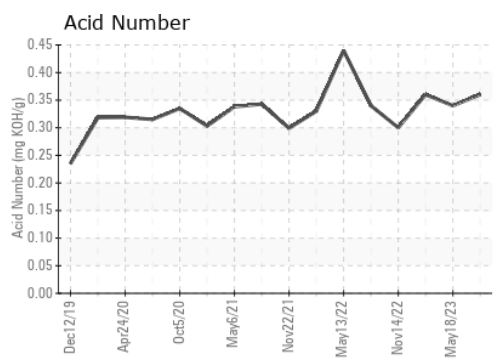
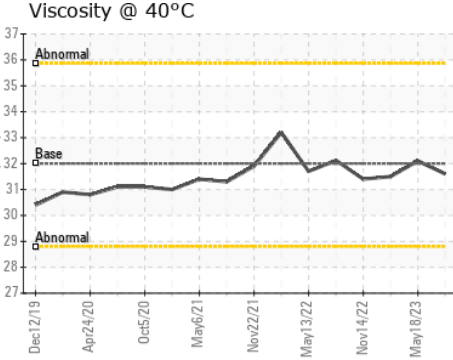
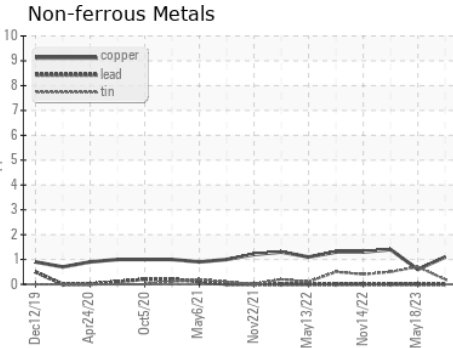
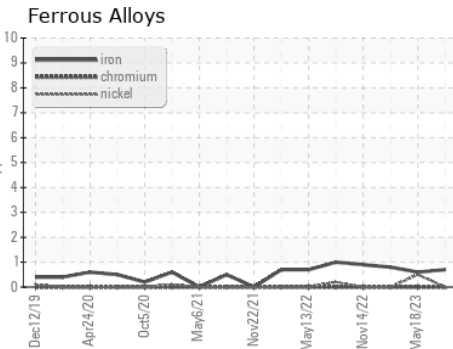


| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 32 | 31.6 | 32.1 | 31.5 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0029419 **Received** : 20 Jul 2023
Lab Number : **05903822** **Diagnosed** : 24 Jul 2023
Unique Number : 10565178 **Diagnostician** : Don Baldrige
Test Package : PLANT

ENERGY TRANSFER - LIMA
 1520 BUCKEYE RD
 LIMA, OH
 US 45804
 Contact: ANDREW WYDERKA
 andrew.wyderka@energytransfer.com
 T: (419)618-1505
 F:

Certificate L2367
 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)