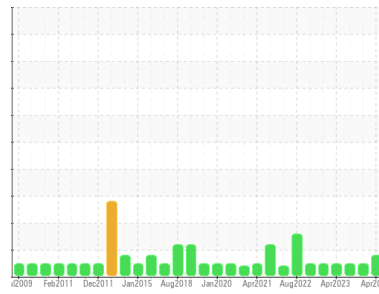




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
SPLITTER 1
 Machine Id
078CM12011
 Component
Turbine
 Fluid
ROYAL PURPLE SYNFILM GT 32 (250 GAL)

DIAGNOSIS

- Recommendation**
Resample at the next service interval to monitor.
- Wear**
An increase in the copper level is noted. All other component wear rates are normal.
- Contamination**
The amount and size of particulates present in the system are acceptable.
- Fluid Condition**
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | RP0040977 | RP0027307 | RP0027134 |
| Sample Date | Client Info | 09 Apr 2024 | 10 Oct 2023 | 18 Jul 2023 |
| Machine Age | hrs | Client Info | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | ATTENTION | NORMAL | NORMAL |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|------------|-----------------|-----------|----------|----|
| Iron | ppm | ASTM D5185m >15 | 0 | 0 | 1 |
| Chromium | ppm | ASTM D5185m >4 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >10 | 0 | 0 | 1 |
| Lead | ppm | ASTM D5185m | <1 | 2 | <1 |
| Copper | ppm | ASTM D5185m >5 | 25 | 19 | 19 |
| Tin | ppm | ASTM D5185m >5 | 0 | <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 | 67 | 52 |
| Calcium | ppm | ASTM D5185m | 2 | 4 | <1 |
| Phosphorus | ppm | ASTM D5185m | 0 | <1 | 0 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 0 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|------------------|--------------|----------|-------|
| Silicon | ppm | ASTM D5185m >15 | <1 | 0 | <1 |
| Sodium | ppm | ASTM D5185m | 0 | 1 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 0 | 0 | <1 |
| Water | % | ASTM D6304 >0.03 | 0.013 | 0.017 | 0.015 |
| ppm Water | ppm | ASTM D6304 >300 | 133 | 172.9 | 152.8 |

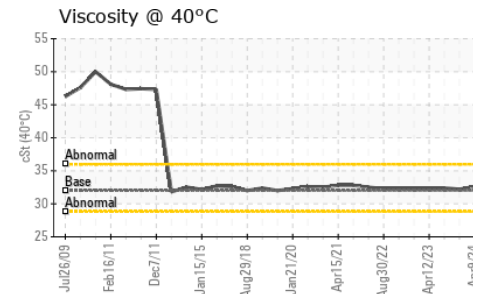
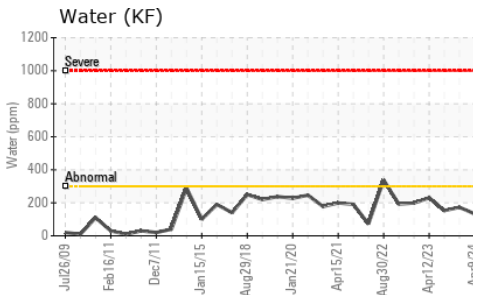
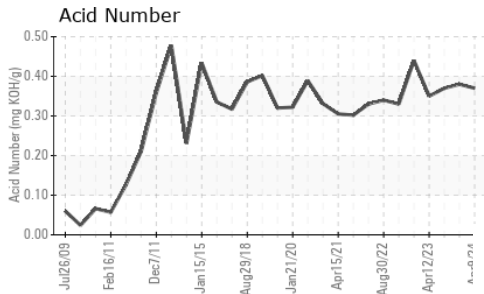
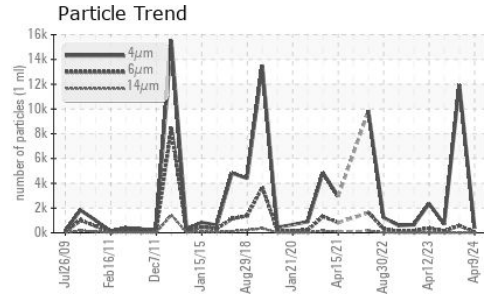
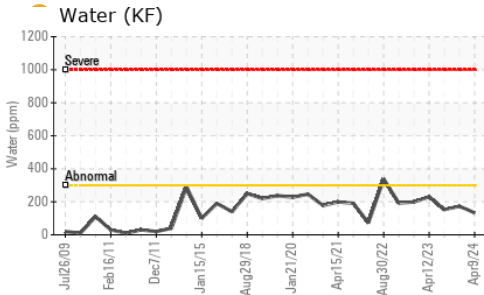
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | 380 | 11955 | 697 |
| Particles >6µm | ASTM D7647 >1300 | 57 | 578 | 148 |
| Particles >14µm | ASTM D7647 >160 | 7 | 10 | 11 |
| Particles >21µm | ASTM D7647 >40 | 2 | 3 | 5 |
| Particles >38µm | ASTM D7647 >10 | 0 | 0 | 0 |
| Particles >71µm | ASTM D7647 >3 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) >--/17/14 | 16/13/10 | 21/16/10 | 17/14/11 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | |
|------------------|------------|------------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.37 | 0.38 | 0.37 |

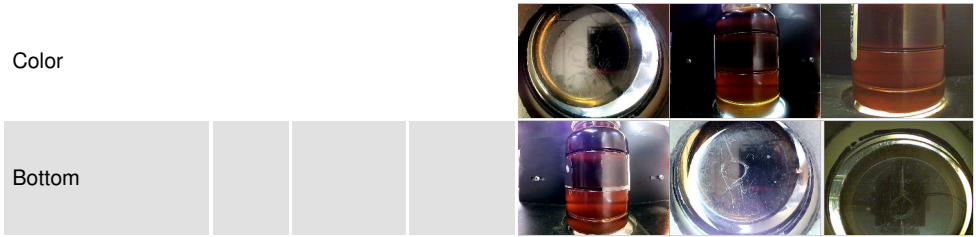
OIL ANALYSIS REPORT



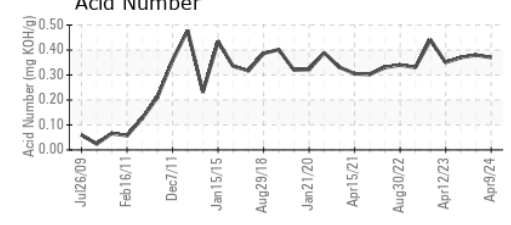
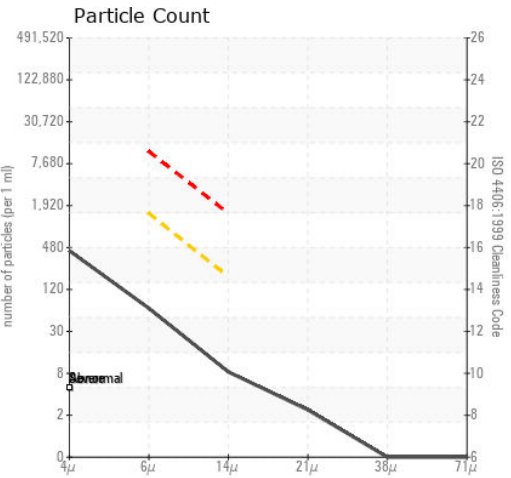
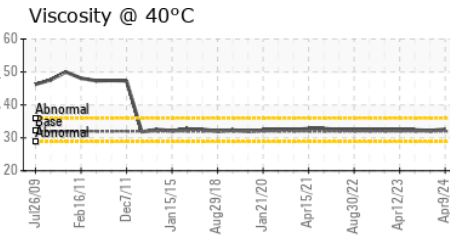
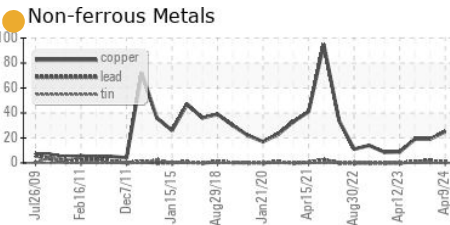
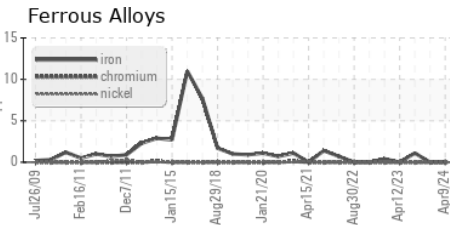
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | LIGHT |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.03 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 32 | 32.6 | 32.2 |

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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0040977 **Received** : 10 Apr 2024
Lab Number : 06144227 **Tested** : 11 Apr 2024
Unique Number : 10969035 **Diagnosed** : 12 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: PrtCount)

ENTERPRISE PRODUCTS
P.O. BOX 573
MONT BELVUE, TX
US 77580
Contact: TOMMY EDWARDS
tedwards@eprod.com
T: (281)217-1411
F: (281)385-4327

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)