

PROBLEM SUMMARY

Sample Rating Trend

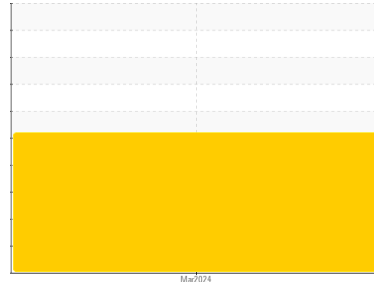
WATER



Machine Id
PEP 3-T

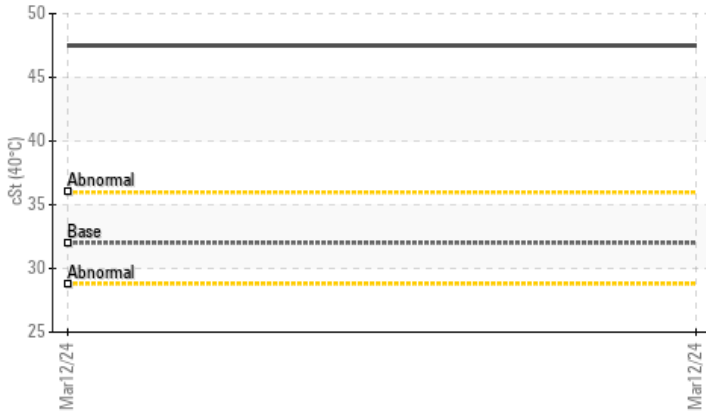
Component
Gearbox

Fluid
ROYAL PURPLE SYNFILM GT 32 (3 GAL)



COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | SEVERE | --- | --- |
|---------------|--------|-----------|----|--------|-----|-----|
| Free Water | scalar | *Visual | | ▲ 2.0 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 32 | ▲ 47.5 | --- | --- |

Customer Id: VEOSMI
Sample No.: RP0039438
Lab Number: 06132108
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|--------------------|--------|------|---------|---|
| Change Fluid | --- | --- | ? | We recommend that you drain the oil from the component if this has not already been done. |
| Check Water Access | --- | --- | ? | We advise that you check for the source of water entry. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

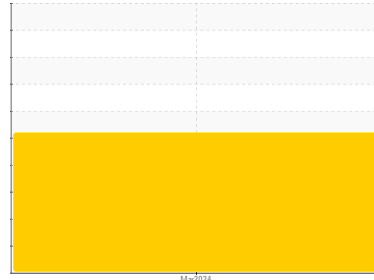
WATER



Machine Id
PEP 3-T

Component
Gearbox

Fluid
ROYAL PURPLE SYNFILM GT 32 (3 GAL)



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Excessive free water present.

▲ Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | RP0039438 | --- | --- |
| Sample Date | Client Info | | 12 Mar 2024 | --- | --- |
| Machine Age | yrs | Client Info | 0 | --- | --- |
| Oil Age | yrs | Client Info | 1 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | SEVERE | --- | --- |

WEAR METALS

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

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|---------|--------------|----------|
| Boron | ppm | ASTM D5185m | | 0 | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 0 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | --- |
| Magnesium | ppm | ASTM D5185m | | 8 | --- |
| Calcium | ppm | ASTM D5185m | | <1 | --- |
| Phosphorus | ppm | ASTM D5185m | | 3 | --- |
| Zinc | ppm | ASTM D5185m | | 0 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------|---------|--------------|----------|
| Silicon | ppm | ASTM D5185m | >50 | 1 | --- |
| Sodium | ppm | ASTM D5185m | | 2 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | --- |
| Water | % | ASTM D6304 | >0.2 | 0.152 | --- |
| ppm Water | ppm | ASTM D6304 | >2000 | 1520 | --- |

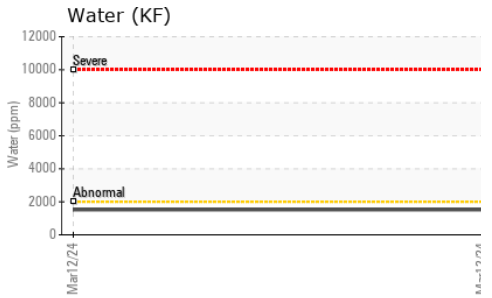
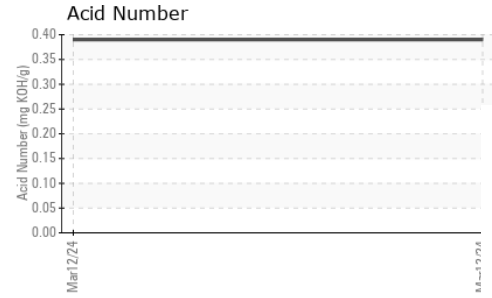
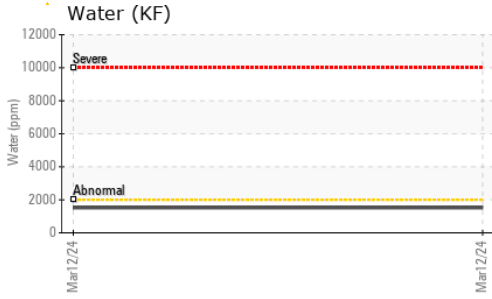
FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|---------|-------------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.39 | --- |

VISUAL

| | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|--------------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | 0.2% | --- |
| Free Water | scalar | *Visual | | ▲ 2.0 | --- |

OIL ANALYSIS REPORT

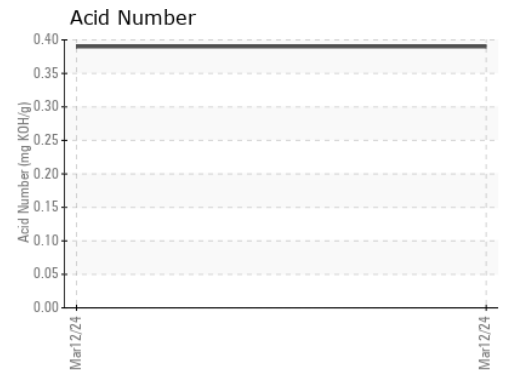
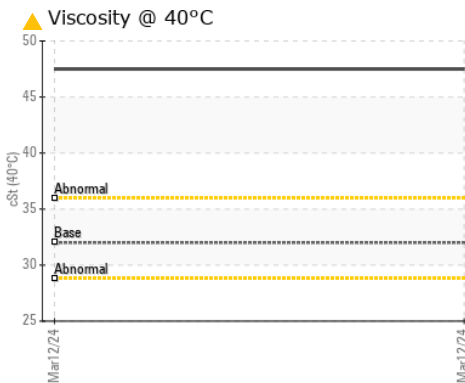
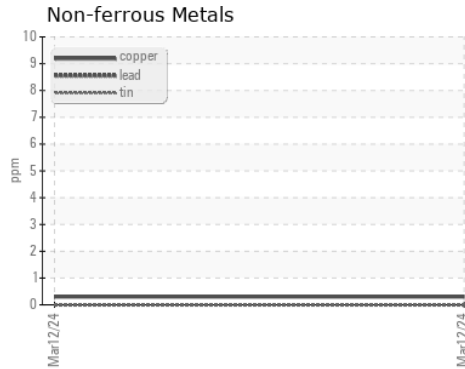
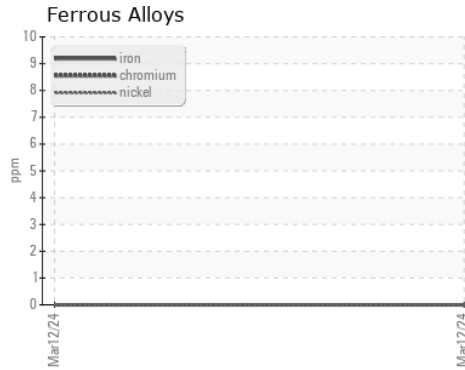


| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 32 | ▲ 47.5 | --- | --- |

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

| | | | |
|--------|--|----------|----------|
| Color | | no image | no image |
| Bottom | | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0039438
Lab Number : 06132108
Unique Number : 10951573
Test Package : IND 2
Received : 28 Mar 2024
Tested : 29 Mar 2024
Diagnosed : 02 Apr 2024 - Angela Borella

VEOLIA SMITHFIELD
 P.O. BOX 17249
 SMITHFIELD, RI
 US 02917
 Contact: KAREN GOFFE
 karen.goffe@veolia.com

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)

T: (401)231-7089