



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
T001405 (S/N 24-M-02-2595)

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | WC0909989 | --- | --- |
| Sample Date | Client Info | | 21 Mar 2024 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | NORMAL | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.05 | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >20 | <1 | --- | --- |
| Chromium | ppm | ASTM D5185(m) >20 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185(m) >20 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) >20 | 0 | --- | --- |
| Lead | ppm | ASTM D5185(m) >20 | 0 | --- | --- |
| Copper | ppm | ASTM D5185(m) >20 | <1 | --- | --- |
| Tin | ppm | ASTM D5185(m) >20 | 0 | --- | --- |
| Antimony | ppm | ASTM D5185(m) | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|--------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) 0 | 0 | --- | --- |
| Barium | ppm | ASTM D5185(m) 0 | <1 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) 0 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185(m) 1 | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) 0 | <1 | --- | --- |
| Calcium | ppm | ASTM D5185(m) 100 | 93 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) 670 | 611 | --- | --- |
| Zinc | ppm | ASTM D5185(m) 850 | 799 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) 1600 | 1505 | --- | --- |
| Lithium | ppm | ASTM D5185(m) | <1 | --- | --- |

CONTAMINANTS

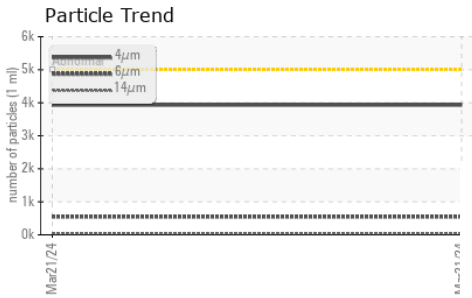
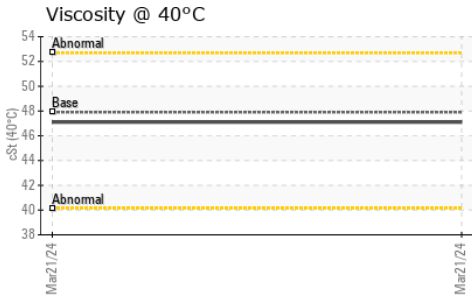
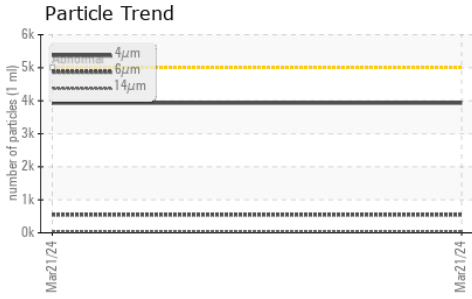
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >15 | 4 | --- | --- |
| Sodium | ppm | ASTM D5185(m) | <1 | --- | --- |
| Potassium | ppm | ASTM D5185(m) >20 | <1 | --- | --- |

FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >5000 | 3931 | --- | --- |
| Particles >6µm | ASTM D7647 | >1300 | 549 | --- | --- |
| Particles >14µm | ASTM D7647 | >160 | 44 | --- | --- |
| Particles >21µm | ASTM D7647 | >40 | 15 | --- | --- |
| Particles >38µm | ASTM D7647 | >10 | 1 | --- | --- |
| Particles >71µm | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >19/17/14 | 19/16/13 | --- | --- |



OIL ANALYSIS REPORT



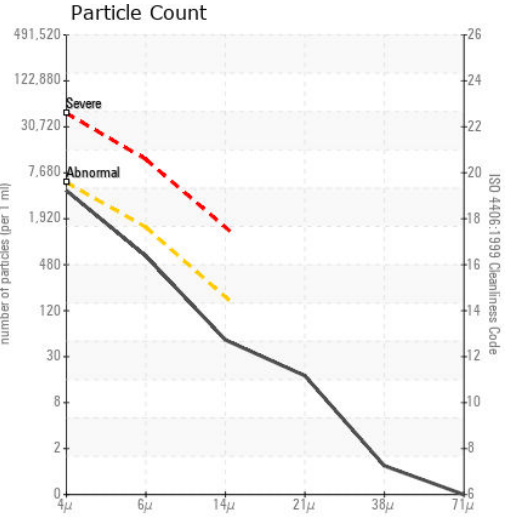
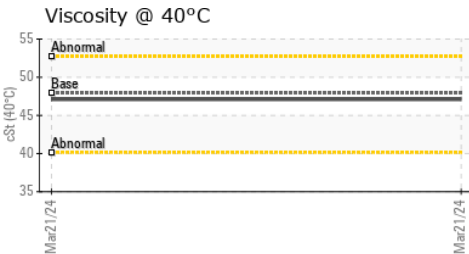
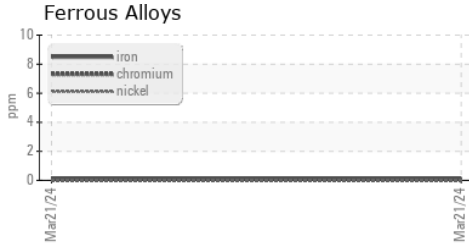
| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|--------------|----------|-----|
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Precipitate | scalar | Visual* | NONE | NONE | --- | --- |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | VLITE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | --- | --- |
| Emulsified Water | scalar | Visual* | >0.05 | NEG | --- | --- |
| Free Water | scalar | Visual* | | NEG | --- | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|---------------|---------|-------------|----------|-----|
| Visc @ 40°C | cSt | ASTM D7279(m) | 47.9 | 47.1 | --- | --- |

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

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0909989 **Received** : 26 Mar 2024
Lab Number : **02624723** **Tested** : 27 Mar 2024
Unique Number : 5749842 **Diagnosed** : 27 Mar 2024 - Wes Davis
Test Package : MOB 2

RWF Industries
 873 Devonshire Ave.
 Woodstock, ON
 CA N4S 8Z4
 Contact: Tami Arnold
 tamia@rwfbron.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

T:
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