



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
BOMBARDIER C-FLKY
 Component
3 Hydraulic System
 Fluid
SKYDROL LD-4 (6 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable.

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 | | | WC0696354 | --- | --- |
| Sample Date | Client Info | | | 24 Aug 2023 | --- | --- |
| Machine Age | hrs | Client Info | | 0 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | Client Info | | | N/A | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|---------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) | >20 | 3 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >10 | <1 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >20 | 0 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >20 | 2 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | --- | --- |
| Antimony | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | | 3 | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|---------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) | 0 | 2 | --- | --- |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 0 | <1 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 0 | 4 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 20000 | 28731 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 0 | 3 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 1900 | 1653 | --- | --- |
| Lithium | ppm | ASTM D5185(m) | | <1 | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|---------------|------------|---------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >15 | 6 | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | 5 | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 15 | --- | --- |
| Water | % | ASTM D6304* | >0.6 | 0.260 | --- | --- |
| ppm Water | ppm | ASTM D6304* | >6000 | 2602.7 | --- | --- |

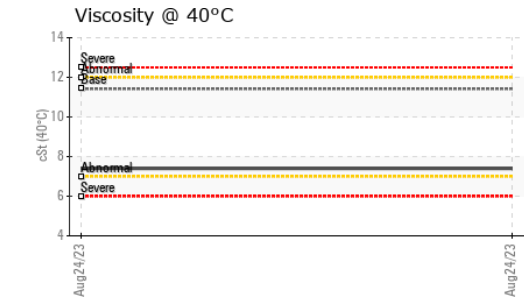
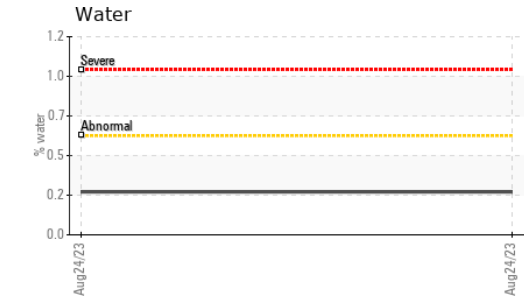
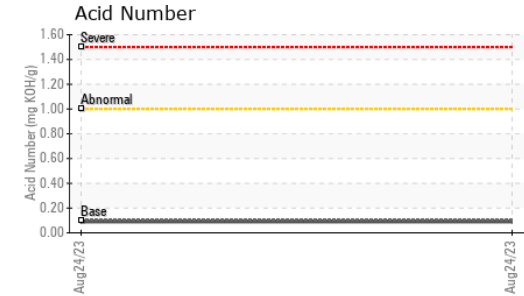
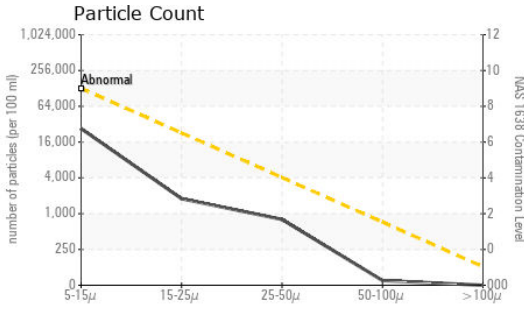
| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|--------------------|-------|----------|------------|--------------|----------|----------|
| Particles 5-15µm | count | NAS 1638 | >128000 | 26981 | --- | --- |
| Particles 15-25µm | count | NAS 1638 | >22800 | 1787 | --- | --- |
| Particles 25-50µm | count | NAS 1638 | >4050 | 800 | --- | --- |
| Particles 50-100µm | count | NAS 1638 | >720 | 33 | --- | --- |
| Particles >100µm | count | NAS 1638 | >128 | 0 | --- | --- |
| NAS 1638 | Class | NAS 1638 | >9 | 7 | --- | --- |

Particle Filter (Magn: 100 x)





OIL ANALYSIS REPORT



| FLUID DEGRADATION | method | limit/base | current | history1 | history2 | |
|-------------------|----------|------------|---------|-------------|----------|-----|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.10 | 0.09 | --- | --- |

| 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* | >0.6 | NEG | --- | --- |
| Free Water | scalar | Visual* | | NEG | --- | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|---------------|---------|------------|----------|-----|
| Visc @ 40°C | cSt | ASTM D7279(m) | 11.42 | 7.4 | --- | --- |

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

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



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0696354 **Received** : 25 Aug 2023 2450 DERRY RD EAST HANGAR # 9
Lab Number : **02578575** **Diagnosed** : 29 Aug 2023 MISSISSAUGA, ON
Unique Number : 5631635 **Diagnostician** : Kevin Marson CA L5S 1B2
Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, KF, PrtCountNAS, PrtFilter, TAN Man) **Contact:** John Griffiths
 To discuss this sample report, contact Customer Service at 1-800-268-2131. johngriffiths@novajet.ca
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)673-0287
 Validity of results and interpretation are based on the sample and information as supplied. F: (905)673-5039