

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

HYDROSTATIC TEST STAND

Component Hydraulic System Fluid RADCOLUBE RHP5606 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|---|---|--|--|---|--|---|
| Sample Number | | Client Info | | WC0713357 | | |
| Sample Date | | Client Info | | 22 Jan 2023 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINATION | ٧ | 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 | 3 | | |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | | |
| Nickel | ppm | ASTM D5185(m) | >20 | <1 | | |
| 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 | 2 | | |
| Copper | ppm | ASTM D5185(m) | | 4 | | |
| Tin | ppm | ASTM D5185(m) | >20 | 0 | | |
| Antimony | ppm | ASTM D5185(m) | 0 | 0 | | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | | |
| | ppin | () | | | | |
| ADDITIVES | | method | limit/base | | history1 | history2 |
| - | | | | | | |
| | ppm | ASTM D5185(m) | | <1 | | |
| Barium | ppm | ASTM D5185(m) ASTM D5185(m) | | 0 | | |
| Barium Molybdenum | ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | | 0 0 | | |
| Barium Molybdenum Manganese | ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | | 0 0 <1 | | |
| Barium Molybdenum Manganese Magnesium | ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | | 0 0 <1 0 | | |
| Barium Molybdenum Manganese Magnesium Calcium | ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | | 0 0 <1 0 0 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | | 0 0 <1 0 0 29 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | | 0 0 <1 0 0 29 15 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | | 0 0 <1 0 0 29 15 194 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | | 0 0 <1 0 0 29 15 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | limit/base | 0 0 <1 0 0 29 15 194 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | | 0 0 <1 0 0 29 15 194 <1 | | |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | limit/base | 0 0 <1 0 0 29 15 194 <1 current | history1 | history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) | limit/base >15 | 0 0 <1 0 29 15 194 <1 current 0 | history1 | history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) | limit/base >15 | 0 0 <1 0 29 15 194 <1 current 0 <1 | history1 | history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) | limit/base >15 >20 | 0 0 <1 0 0 29 15 194 <1 current 0 <1 <1 <1 | history1 | history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) | limit/base >15 >20 limit/base | 0 0 <1 0 29 15 194 <1 current 0 <1 <1 current | history1 history1 | history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) | limit/base >15 >20 limit/base >5000 | 0 0 <1 0 0 29 15 194 <1 <1 0 <1 <1 <1 <1 4464 | history1 history1 | history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) | Imit/base >15 >20 Imit/base >5000 >1300 >160 | 0 0 <1 0 29 15 194 <1 current 0 <1 <1 current 4464 1265 | history1 history1 | history2 history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D7647 ASTM D7647 | Imit/base >15 >20 Imit/base >5000 >1300 >160 | 0 0 (<1 0 29 15 194 <1 (urrent 0 <1 <1 <1 <1 (urrent 4464 1265 134 45 | history1 history1 | history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10 | 0 0 (<1 0 29 15 194 <1 (urrent 0 <1 <1 <1 (urrent 4464 1265 134 45 3 | | history2 history2 history2 |
| Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm | ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 | limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10 | 0 0 (<1 0 29 15 194 <1 (urrent 0 <1 <1 <1 <1 (urrent 4464 1265 134 45 | | I history2 history2 |



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| | FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |
|---|------------------|-------------------------|---|--|----------|----------|---|
| | Acid Number (AN) | mg KOH/g | ASTM D974* | 0.20 | 0.17 | | |
| 14µm | VISUAL | | method | limit/base | current | history1 | history2 |
| | White Metal | scalar | Visual* | NONE | NONE | | |
| | Yellow Metal | scalar | Visual* | NONE | NONE | | |
| | Precipitate | scalar | Visual* | NONE | NONE | | |
| /23 | Silt | scalar | Visual* | NONE | NONE | | |
| Jan 22/23 Jan 22/23 | Debris | scalar | Visual* | NONE | NONE | | |
| Acid Number | Sand/Dirt | scalar | Visual* | NONE | NONE | | |
| Acid Number | Appearance | scalar | Visual* | NORML | NORML | | |
| Base | Odor | scalar | Visual* | NORML | NORML | | |
| | Emulsified Water | scalar | Visual* | >0.05 | NEG | | |
| | Free Water | scalar | Visual* | | NEG | | |
| | FLUID PROPER | TIES | method | limit/base | current | history1 | history2 |
| | Visc @ 40°C | cSt | ASTM D7279(m) | 13.2 | 13.3 | | |
| Jan 22/23 Jan 22/23 | SAMPLE IMAGE | S | method | limit/base | current | history1 | history2 |
| ී Viscosity @ 40°C Abnormal | Color | | | | | no image | no image |
| Base | Bottom | | | | | no image | no image |
| Jan 22/23 | GRAPHS | | | | | | |
| Particle Trend | Non-ferrous Meta | | | 0.000 and 1 mmber of particles (per 1 m 1 and 22/22 0 and Number (mg K0H/g) 0 and Number (mg K0H/g) 0 and 1 mmber of particles (per 1 m 0 and 0 mmber of p | Abnormal | 14μ 21μ | -24 -22 -20 -18 -16 -14 -14 -12 -10 -8 -38µ 71µ |
| Accredited Unique Number Laboratory Test Package | r : 02534881 | Recei Teste Diagr | ived : 23 id : 23 nosed : 23 Man) | 3 Jan 2023 3 Jan 2023 9 Jan 2023 - W | | | IFIN CANAD SHOLM DRIV MILTON, O CA L9T 3G urelio Romar |

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