

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 1400-2

Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

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.

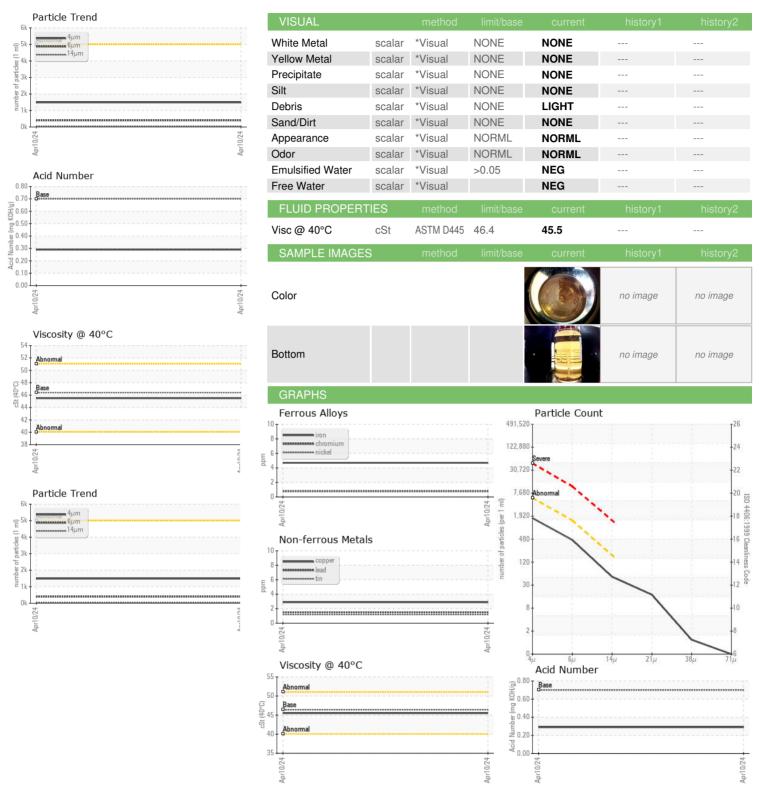
Fluid Condition

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

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|---|--|--|--|--|--------------------------------------|----------------------|
|) | | | | Apr2024 | | |
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | KFS0004975 | | |
| Sample Date | | Client Info | | 10 Apr 2024 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.05 | NEG | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 5 | | |
| Chromium | ppm | ASTM D5185m | >20 | <1 | | |
| Nickel | ppm | ASTM D5185m | >20 | <1 | | |
| Titanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 1 | | |
| Lead | ppm | ASTM D5185m | >20 | 2 | | |
| Copper | ppm | ASTM D5185m | >20 | 3 | | |
| Tin | ppm | ASTM D5185m | >20 | 1 | | |
| Vanadium | ppm | ASTM D5185m | | <1 | | |
| Cadmium | ppm | ASTM D5185m | | <1 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | | |
| Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 0 | 1 | | |
| Manganese | ppm | ASTM D5185m | 0 | <1 | | |
| | | | | | | |
| Magnesium | ppm | ASTM D5185m | 0 | <1 | | |
| Magnesium Calcium | ppm | ASTM D5185m ASTM D5185m | 0 50 | <1 48 | | |
| | | | | | | |
| Calcium | ppm | ASTM D5185m | 50 | 48 | | |
| Calcium Phosphorus | ppm | ASTM D5185m ASTM D5185m | 50 330 | 48 349 | | |
| Calcium Phosphorus Zinc | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 50 330 430 | 48 349 410 | | |
| Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 50 330 430 760 | 48 349 410 1390 | | |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method | 50 330 430 760 limit/base | 48 349 410 1390 current | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m | 50 330 430 760 limit/base | 48 349 410 1390 current | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m | 50 330 430 760 limit/base >15 | 48 349 410 1390 current <1 | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m | 50 330 430 760 limit/base >15 >20 | 48 349 410 1390 current <1 0 | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m Method | 50 330 430 760 limit/base >15 >20 limit/base | 48 349 410 1390 current <1 0 1 | history1 history1 | history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 50 330 430 760 limit/base >15 >20 limit/base >5000 | 48 349 410 1390 current <1 0 1 current | history1 history1 | history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m | 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 | 48 349 410 1390 current <1 0 1 current 1488 402 | history1 history1 | history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 | 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 | 48 349 410 1390 current <1 0 1 current 1488 402 44 | history1 history1 | history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >14µm Particles >21µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 | 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 >40 | 48 349 410 1390 current <1 0 1 current 1488 402 44 15 | history1 history1 | history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10 | 48 349 410 1390 current <1 0 1 current 1488 402 44 15 1 | history1 history1 | history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 | 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10 >3 | 48 349 410 1390 current <1 0 1 current 1488 402 44 15 1 0 | history1 history1 | history2 history2 |



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: KFS0004975 Lab Number : 06146567 Unique Number : 10976645

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Apr 2024 **Tested** : 12 Apr 2024

Diagnosed : 12 Apr 2024 - Wes Davis

MARELLI 181 BENNETT DR PULASKI, TN US 38478 Contact: Service Manager

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)

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