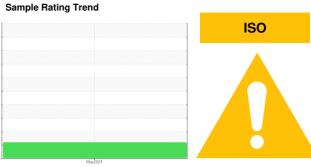


OIL ANALYSIS REPORT

Ou.



Machine Id
OR722
Component

Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

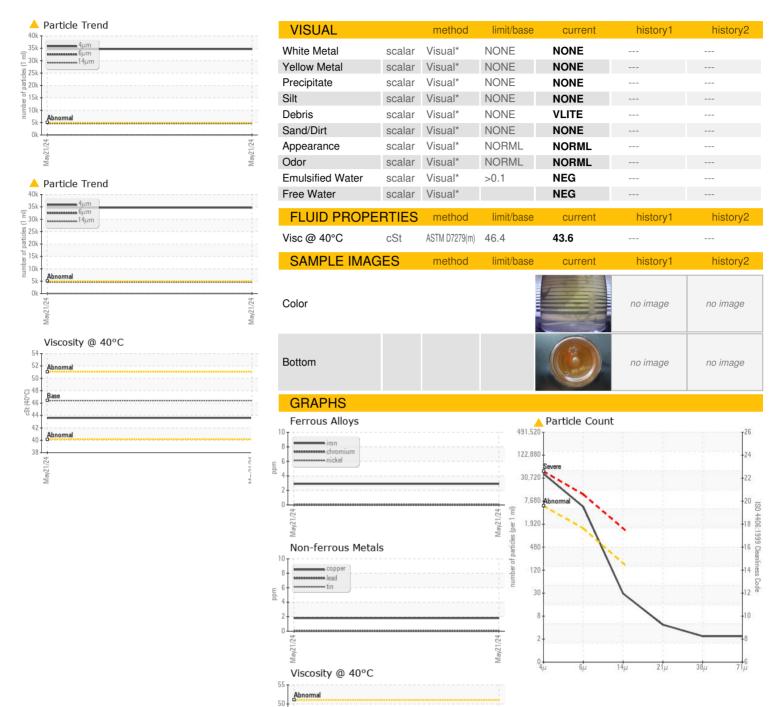
Fluid Condition

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

				May2024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100571		
Sample Date		Client Info		21 May 2024		
Machine Age	hrs	Client Info		9574		
Oil Age	hrs	Client Info		1000		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	3		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)		0		
	ppm	ASTM D5185(m)		0		
	ppm	ASTM D5185(m)	>10	<1		
	ppm	ASTM D5185(m)	>10	0		
Copper	ppm	ASTM D5185(m)	>75	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)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
	ppm ppm	ASTM D5185(m) ASTM D5185(m)	0	0		
Manganese		. ,				
Manganese Magnesium	ppm	ASTM D5185(m)	0	0		
Manganese Magnesium Calcium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	0	0 <1		
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 50	0 <1 51		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 50 330	0 <1 51 330		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 50 330 430	0 <1 51 330 413		
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)	0 0 50 330 430	0 <1 51 330 413 752		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 50 330 430 760	0 <1 51 330 413 752 <1	 	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) METHOD	0 0 50 330 430 760	0 <1 51 330 413 752 <1 current	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon Sodium	ppm	ASTM D5185(m) method ASTM D5185(m)	0 0 50 330 430 760	0 <1 51 330 413 752 <1 current <1	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon Sodium	ppm	ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 50 330 430 760 limit/base >20	0 <1 51 330 413 752 <1 current <1 <1	history1	history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon Sodium Potassium	ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 50 330 430 760 limit/base >20	0 <1 51 330 413 752 <1 current <1 <1 0	 history1	history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI	ppm	ASTM D5185(m) METHOD ASTM D5185(m)	0 0 50 330 430 760 limit/base >20 limit/base	0 <1 51 330 413 752 <1 current <1 <1 0 current	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI Particles >4µm	ppm	ASTM D5185(m) METHOD ASTM D5185(m)	0 0 50 330 430 760 limit/base >20 limit/base >5000	0 <1 51 330 413 752 <1 current <1 <1 0 current ▲ 34664	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI Particles >4µm Particles >6µm	ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m)	0 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300	0 <1 51 330 413 752 <1 current <1 <1 0 current △ 34664 △ 4762	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI Particles >4µm Particles >6µm Particles >14µm	ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	0 0 50 330 430 760 limit/base >20 limit/base >5000 >1300 >160	0 <1 51 330 413 752 <1 current <1 <1 0 current ▲ 34664 ▲ 4762 26	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANT Silicon Sodium Potassium FLUID CLEANLI Particles >4µm Particles >14µm Particles >21µm	ppm	ASTM D5185(m) METHOD METHOD ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >160 >40	0 <1 51 330 413 752 <1 current <1 <1 0 current	history1 history1	history2 history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02638133 Unique Number : 5787295

: GFL0100571

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test Package : MOB 1 (Additional Tests: PrtCount)

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling Received : 28 May 2024

Tested Diagnosed

: 30 May 2024

: 30 May 2024 - Wes Davis

38950 Queens Way, Squamish, BC **CA V8B 0K8**

Contact: Dean Imbeau dimbeau@gflenv.com T: (604)892-5604

F: (604)892-5238

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.