

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

L-7

Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

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

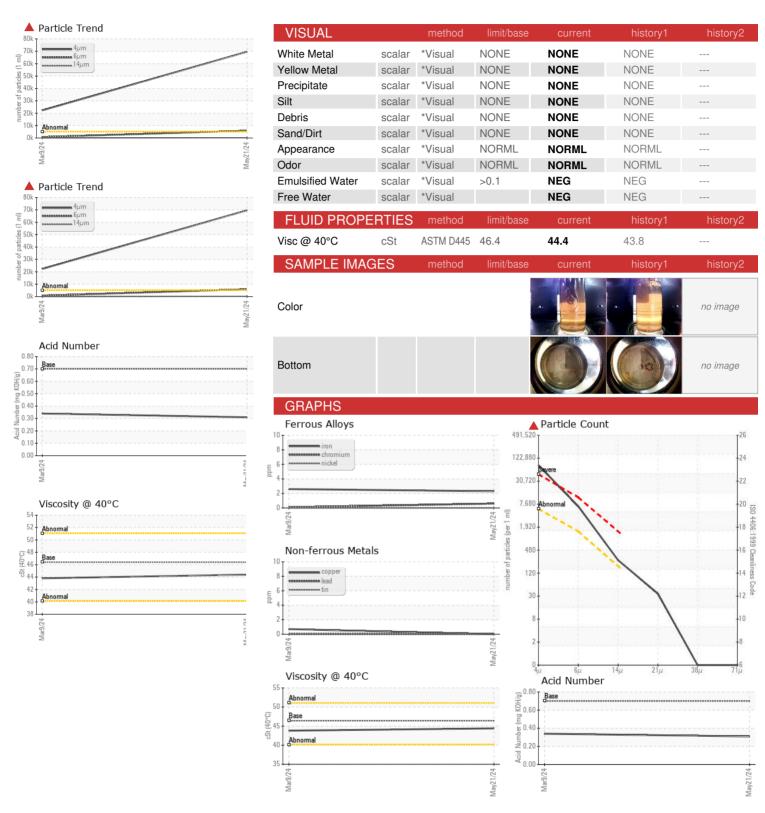
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

				<mark>.</mark>		
)			Mar2024	May2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0123721	PCA0118518	
Sample Date		Client Info		21 May 2024	09 Mar 2024	
Machine Age	hrs	Client Info		41847	41286	
Oil Age	hrs	Client Info		1173	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				SEVERE	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
	IOIV				•	mstoryz
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	3	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	<1	<1	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	0	<1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVEO			11 1. //		for the second	l-!-10
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	method ASTM D5185m	limit/base	current 0	nistory i	nistory2
	ppm					nistory2
Boron		ASTM D5185m	0	0	0	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	0	0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 0 0	0 0 0	
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 0 0	0 0 0 <1	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0	0 0 0 0	0 0 0 <1 3	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 0 50	0 0 0 0 1 83	0 0 0 <1 3 83	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 50 330	0 0 0 0 1 83 352	0 0 0 <1 3 83 385	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 0 50 330 430	0 0 0 0 1 83 352 449	0 0 0 <1 3 83 385 483	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 50 330 430 760	0 0 0 0 1 83 352 449 1109	0 0 0 <1 3 83 385 483 1296	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 0 50 330 430 760	0 0 0 0 1 83 352 449 1109	0 0 0 <1 3 83 385 483 1296 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 0 50 330 430 760	0 0 0 0 1 83 352 449 1109 current	0 0 0 <1 3 83 385 483 1296 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 50 330 430 760 limit/base	0 0 0 0 1 83 352 449 1109 current 0	0 0 0 <1 3 83 385 483 1296 history1 <1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 0 50 330 430 760 limit/base >20	0 0 0 0 1 83 352 449 1109 current 0 1	0 0 0 <1 3 83 385 483 1296 history1 <1 2	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 0 0 50 330 430 760 limit/base >20	0 0 0 0 1 83 352 449 1109 current 0 1	0 0 0 <1 3 83 385 483 1296 history1 <1 2 0	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m MEthod ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 50 330 430 760 limit/base >20 limit/base	0 0 0 0 1 83 352 449 1109 current 0 1 0	0 0 0 <1 3 83 385 483 1296 history1 <1 2 0 history1 △ 22265	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 0 0 50 330 430 760 limit/base >20 >20 limit/base	0 0 0 1 83 352 449 1109 current 0 1 0 current ▲ 69648 ▲ 5852	0 0 0 <1 3 83 385 483 1296 history1 <1 2 0 history1 △ 22265 789	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	0 0 0 0 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >160	0 0 0 1 83 352 449 1109 current 0 1 0 current ▲ 69648 ▲ 5852 231	0 0 0 <1 3 83 385 483 1296 history1 <1 2 0 history1 △ 22265 789 56	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	0 0 0 0 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >160 >40	0 0 0 1 83 352 449 1109 current 0 1 0 current ▲ 69648 ▲ 5852 231 31	0 0 0 <1 3 83 385 483 1296 history1 <1 2 0 history1 △ 22265 789 56 12	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >5µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m METHOD ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >40 >40 >10	0 0 0 1 83 352 449 1109 current 0 1 0 current ▲ 69648 ▲ 5852 ● 231 31 0	0 0 0 <1 3 83 385 483 1296 history1 <1 2 0 history1 ▲ 22265 789 56 12	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m MEthod ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647	0 0 0 0 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10 >3	0 0 0 0 1 83 352 449 1109 current 0 1 0 current ▲ 69648 ▲ 5852 231 31 0 0	0 0 0 <1 3 83 385 483 1296 history1 <1 2 0 history1 △ 22265 789 56 12 1 0	history2 history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number : 06197578 Unique Number : 11059701 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0123721

Received : 03 Jun 2024 **Tested** Diagnosed

: 04 Jun 2024 : 04 Jun 2024 - Wes Davis

Contact: FRANK NALLY fnally@scrapmetalservices.com T:

1500 COMMERCIAL AVE

MINGO JUNCTION, OH

SCRAP METAL SERVICES (SMS Mill Services LLC)

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

US 43938

F: