

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY





Machine Id **732027** Component

Hydraulic System

PETRO CANADA HYD

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

▲ Fluid Condition

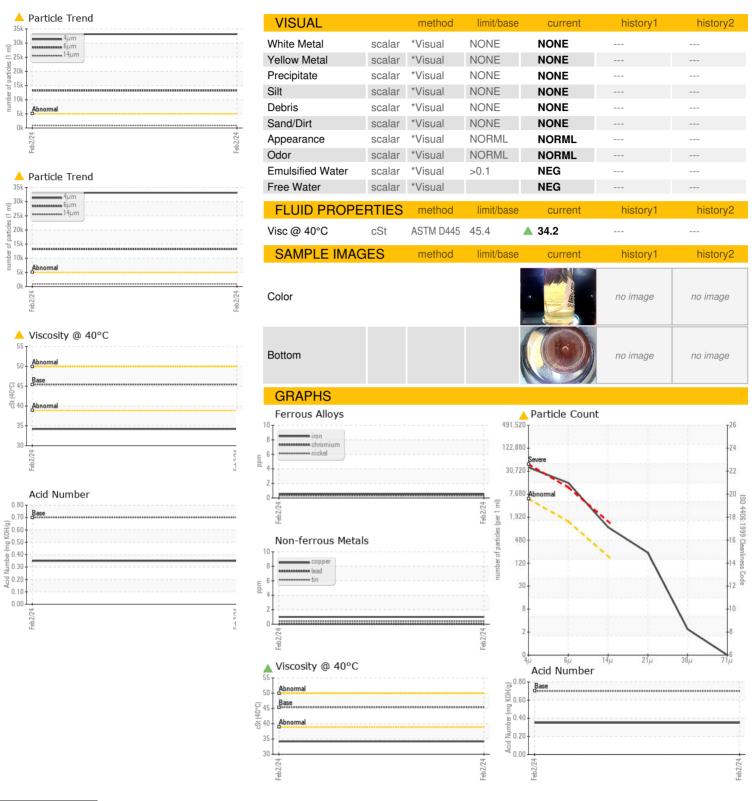
Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

REX MV 46 (G	AL)			Feb2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109852		
Sample Date		Client Info		02 Feb 2024		
Machine Age	hrs	Client Info		1890		
Oil Age	hrs	Client Info		1890		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>5	<1		
Lead	ppm	ASTM D5185m	>4	0		
Copper	ppm	ASTM D5185m	>15	1		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m		0		
	- - · · ·	ASTM D5185m	0	1		
Molybdenum	nnm					
-	ppm			-		
Manganese	ppm	ASTM D5185m	1	<1		
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	0	<1 62		
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1 0 50	<1 62 43		
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 0 50 330	<1 62 43 304		
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1 0 50	<1 62 43		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 0 50 330 430 760	<1 62 43 304 367 832		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 0 50 330 430 760	<1 62 43 304 367 832 current	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1 0 50 330 430 760	<1 62 43 304 367 832 current	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1 0 50 330 430 760 limit/base >15	<1 62 43 304 367 832 current 6 <1	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m MEthod ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 0 50 330 430 760 limit/base >15	<1 62 43 304 367 832 current 6 <1 2	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	1 0 50 330 430 760 limit/base >15 >20	<1 62 43 304 367 832 current 6 <1 2 current	 history1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	1 0 50 330 430 760 limit/base >15 >20 limit/base >5000	<1 62 43 304 367 832 current 6 <1 2 current	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 0 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300	<1 62 43 304 367 832	history1 history1	history2 history2
Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	1 0 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160	<1 62 43 304 367 832	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	1 0 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 >40	<1 62 43 304 367 832	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	1 0 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	<1 62 43 304 367 832	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647	1 0 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10 >3	<1 62 43 304 367 832	history1 history1	history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647	1 0 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	<1 62 43 304 367 832	history1 history1	history2 history2

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Laboratory Sample No. Lab Number : 06081306

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

: GFL0109852

Received **Tested Unique Number** : 10863397 Diagnosed

: 06 Feb 2024 Test Package: FLEET (Additional Tests: PrtCount)

: 07 Feb 2024 : 08 Feb 2024 - Don Baldridge

7801 East Truman Road

GFL Environmental - 836 - Kansas City Hauling

Kansas City, MO US 64126 Contact: Loyce Stewart

loyce.stewart@gflenv.com

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Report Id: GFL836 [WUSCAR] 06081306 (Generated: 02/08/2024 10:46:30) Rev: 1

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