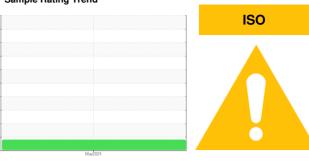


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 921046

Hydraulic System

PETRO CANADA HYDREX MV 46 (--- GAL)

DIAGNOSIS

Recommendation

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

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

			1	Мау2024		•
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122836		
Sample Date		Client Info		28 May 2024		
Machine Age	hrs	Client Info		8032		
Oil Age	hrs	Client Info		0		
Oil Changed	0	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	>20	12		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	<1		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m	210	0		
Cadmium	ppm	ASTM D5185m		0		
	ррпп					
ADDITIVES	ррш	method	limit/base	current	history1	history2
	ррт		limit/base		history1	history2
ADDITIVES		method		current		
ADDITIVES Boron	ppm	method ASTM D5185m	0	current 0		
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	0	current 0 0		
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 0 0 2		
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	current 0 0 2 0		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 1	current 0 0 2 0 2	 	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 1 0 50	current 0 0 2 0 2 1 109	 	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 1 0 50 330	current 0 0 2 0 26 109 361		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 1 0 50 330 430	current 0 0 2 0 26 109 361 452	 	
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 1 0 50 330 430 760	Current 0 0 2 0 26 109 361 452 1090 current		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 1 0 50 330 430 760	Current 0 0 2 0 26 109 361 452 1090 current 0	 history1	 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm	method ASTM D5185m	0 0 0 1 0 50 330 430 760 limit/base	current 0 0 2 0 26 109 361 452 1090 current 0 2	 history1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	0 0 0 1 0 50 330 430 760 limit/base >20	Current 0 0 2 0 26 109 361 452 1090 Current 0 2	history1	history2
ADDITIVES 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	method ASTM D5185m method	0 0 0 1 0 50 330 430 760 limit/base >20	current 0 0 2 0 26 109 361 452 1090 current 0 current	history1 history1	history2 history2
ADDITIVES 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	method ASTM D5185m method ASTM D5185m	0 0 0 1 0 50 330 430 760 limit/base >20 limit/base >5000	current 0 0 2 0 26 109 361 452 1090 current 0 2 0 current 100075	history1 history1	history2
ADDITIVES 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	method ASTM D5185m method ASTM D5185m	0 0 0 1 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300	current 0 0 2 0 26 109 361 452 1090 current 0 2 0 current 10075 905	history1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647	0 0 0 1 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >160	Current 0 0 0 2 0 26 109 361 452 1090 Current 0 2 0 current 10075 905 71	history1 history1	history2 history2
ADDITIVES 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	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 1 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >160 >40	Current 0 0 2 0 26 109 361 452 1090 Current 0 2 0 Current 10075 905 71 18	history1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum 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	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 1 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10	Current 0 0 2 0 26 109 361 452 1090 Current 0 2 0 current 10075 905 71 18 0	history1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >50µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 1 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10 >3	Current 0 0 0 2 0 26 109 361 452 1090	history1 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >51µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 1 0 50 330 430 760 limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10	Current 0 0 2 0 26 109 361 452 1090 Current 0 2 0 current 10075 905 71 18 0	history1 history1	history2 history2

Acid Number (AN)

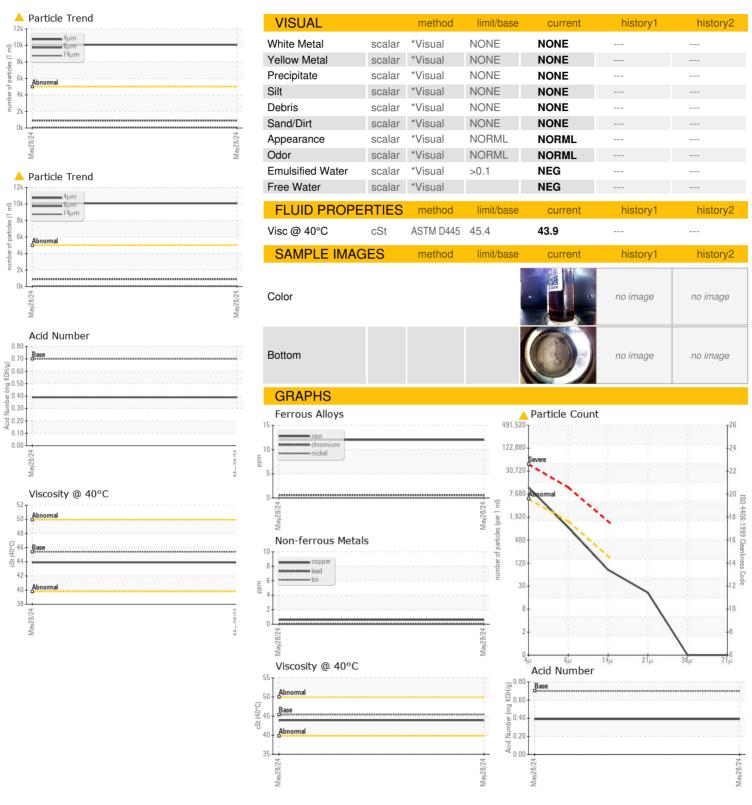
mg KOH/g ASTM D8045 0.70

0.39

Submitted By: JEREMY BROWN



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06197576

: GFL0122836 Unique Number : 11059699

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

: 03 Jun 2024 **Tested** : 04 Jun 2024 Diagnosed

: 04 Jun 2024 - Wes Davis

22820 S State Route 291 Harrisonville, MO US 64701

GFL Environmental - 837 - Harrison TS

Contact: JEREMY BROWN jeremyb@gflenv.com

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.

Test Package : FLEET (Additional Tests: PrtCount)

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

Report Id: GFL837 [WUSCAR] 06197576 (Generated: 06/04/2024 16:00:36) Rev: 1

Submitted By: JEREMY BROWN

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F: