WEAR CONTAMINATION FLUID CONDITION

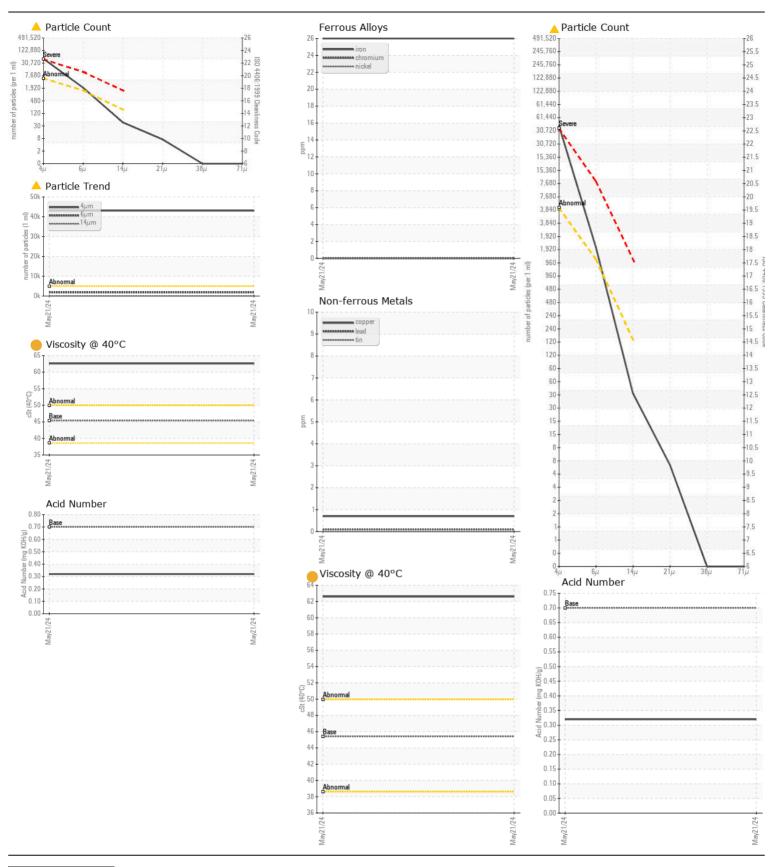
NORMAL ABNORMAL ATTENTION



Machine Id 934021 Component Hydraulic System Fluid

PETRO CANADA HYDREX MV 46 (--- GAL)

PETRO CANADA HYDREX MV	46 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOGRAPHON .	Sample Number		Client Info		GFL0120184		
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.	Sample Date		Client Info		21 May 2024		
	Machine Age	hrs	Client Info		2261		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		2261		
	Oil Changed	0	Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status		0		ABNORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>50	26		
	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	>5	0		
	Lead	ppm	ASTM D5185m	>4	<1		
	Copper	ppm	ASTM D5185m	>15	<1		
	Tin	ppm	ASTM D5185m	>4	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		8		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647	>5000	43076		
	Particles >6µm		ASTM D7647	>1300	1773		
	Particles >14μm		ASTM D7647	>160	39		
	Particles >21μm		ASTM D7647		6		
	Particles >38μm		ASTM D7647	>10	0		
	Particles >71μm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 23/18/12		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
ELUID CONDITION	Cadium		ACTM DE10Em		7		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	7 0		
Viscosity of sample indicates oil is within ISO 68 range, advise	Boron Barium	ppm	ASTM D5185m ASTM D5185m				
investigate. Confirm oil type. The AN level is acceptable for this fluid.		ppm			<1		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1 64		
	Magnesium	ppm	ASTM D5185m		64 26		
	Calcium	ppm	ASTM D5185m		36		
	Phosphorus	ppm	ASTM D5185m		300		
	Zinc	ppm	ASTM D5185m		345		
	Sulfur	ppm	ASTM D5185m		970		
	Acid Number (AN)	mg KOH/g		0.70	0.32		
	Visc @ 40°C	cSt	ASTM D445	45.4	62.6		





Certificate L2367

Laboratory Unique Number: 11045878

Sample No. Lab Number : 06189126

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0120184

Received **Tested**

: 23 May 2024 : 24 May 2024 Diagnosed

: 28 May 2024 - Don Baldridge

GFL Environmental - 836 - Kansas City Hauling 7801 East Truman Road Kansas City, MO US 64126

> Contact: Loyce Stewart loyce.stewart@gflenv.com T:

Test Package : FLEET (Additional Tests: PrtCount) 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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