

Machine Id 921062 Component Hydraulic System Fluid PETRO CANADA HYDREX MV 46 (--- GAL)

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.

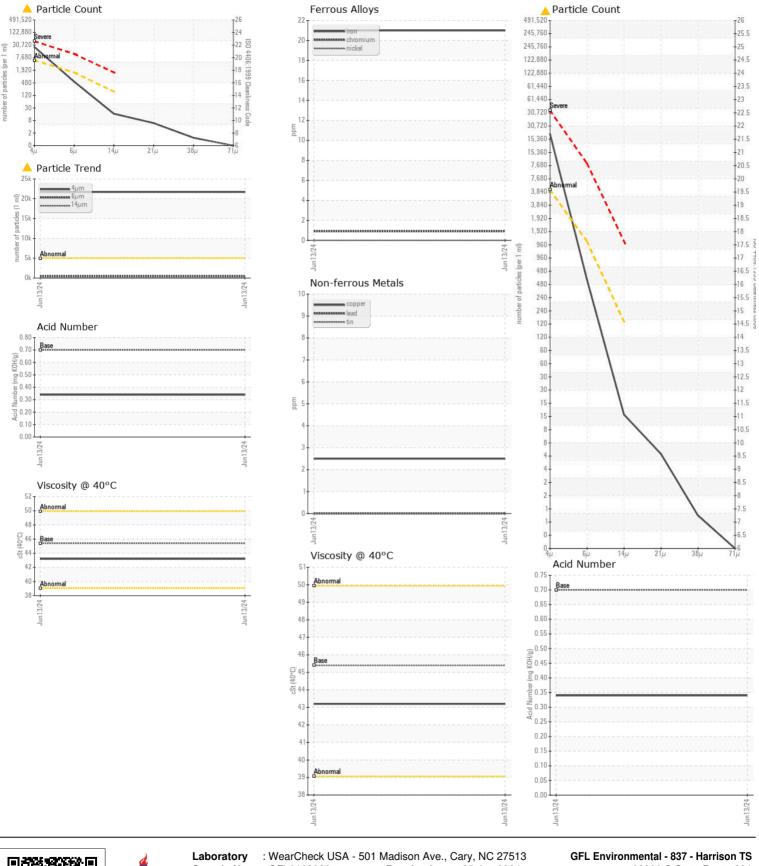
CONTAMINATION

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

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test UOM	Method	Limit/Abn	Current	History1	History2
Sample Number	Client Info		GFL0122829		
Sample Date	Client Info		13 Jun 2024		
Machine Age hrs	Client Info		8748		
Oil Age hrs	Client Info		7751		
Filter Age hrs	Client Info		0		
Oil Changed	Client Info		Not Changd		
Filter Changed	Client Info		Changed		
Sample Status			ABNORMAL		
Iron ppm	ASTM D5185m	>20	21		
Chromium ppm	ASTM D5185m	>10	<1		
Nickel ppm	ASTM D5185m	>10	0		
Titanium ppm	ASTM D5185m		<1		
Silver ppm	ASTM D5185m		0		
Aluminum ppm	ASTM D5185m	>10	<1		
Lead ppm	ASTM D5185m	>10	0		
Copper ppm	ASTM D5185m	>75	2		
Tin ppm	ASTM D5185m	>10	0		
Vanadium ppm	ASTM D5185m		<1		
White Metal scalar	*Visual	NONE	NONE		
Yellow Metal scalar	*Visual	NONE	NONE		
Silicon ppm	ASTM D5185m	>20	4		
Potassium ppm	ASTM D5185m	>20	2		
Water	WC Method	>0.1	NEG		
Particles >4µm	ASTM D7647	>5000	<u> </u>		
Particles >6µm	ASTM D7647	>1300	479		
Particles >14µm	ASTM D7647	>160	14		
Particles >21µm	ASTM D7647	>40	5		
Particles >38µm	ASTM D7647	>10	1		
Particles >71µm	ASTM D7647	>3	0		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>		
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		
			4		
Sodium ppm	ASTM D5185m	0	4		
Boron ppm	ASTM D5185m		0		
Barium ppm	ASTM D5185m	0	0		
Molybdenum ppm	ASTM D5185m	0	1		
Manganese ppm	ASTM D5185m	1	<1		
Magnesium ppm	ASTM D5185m	0	10		
Calcium ppm	ASTM D5185m	50	149		
Phosphorus ppm	ASTM D5185m	330	368		
(100 000	ASTM D5185m	430	448		
Zinc ppm	AOTH DELCE	700			
Sulfur ppm	ASTM D5185m	760	1132		
	ASTM D5185m ASTM D8045 ASTM D445	760 0.70 45.4	1132 0.34 43.2		



Sample No. : GFL0122829 Received 22820 S State Route 291 : 25 Jun 2024 Lab Number : 06220357 Tested Harrisonville, MO : 26 Jun 2024 : 27 Jun 2024 - Doug Bogart US 64701 Unique Number : 11098554 Diagnosed Test Package : FLEET (Additional Tests: PrtCount) Contact: JEREMY BROWN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jeremyb@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)