

WEAR ABNORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL

Machine Id **519005** Component **Hydraulic System** Fluid **PETRO CANADA HYDREX AW 32 (--- LTR)**

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation.

WEAR

Light concentration of visible metal present. Cylinder wear is indicated.

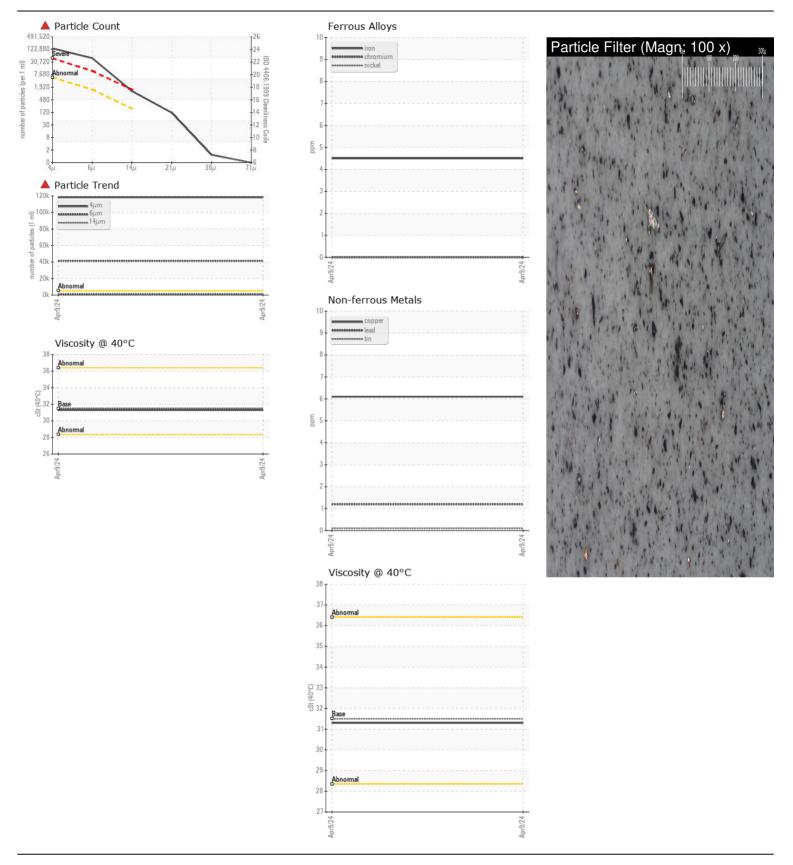
CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL01079	01	
Sample Date		Client Info		09 Apr 20	24	
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Chan	gd	
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
Iron	ppm	ASTM D5185(m)	>20	4		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>10	0		
Lead	ppm	ASTM D5185(m)	>10	1		
Copper	ppm	ASTM D5185(m)	>75	6		
Tin	ppm	ASTM D5185(m)	>10	<1		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	🔺 VLITE		
Yellow Metal	scalar	Visual*	NONE	NON		
Silicon	ppm	ASTM D5185(m)	>20	0		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>5000	1182		
Particles >6µm		ASTM D7647	>1300	4137 2	2	
Particles >14µm		ASTM D7647	>160	<u> </u>		
Particles >21µm		ASTM D7647	>40	102		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	4 24/23/		
Silt	scalar	Visual*	NONE	VLITE		
Debris	scalar	Visual*	NONE	NON		
Sand/Dirt	scalar	Visual*	NONE	NON		
Appearance	scalar	Visual*	NORML	NORM		
Odor	scalar	Visual*	NORML	NORM	/L	
Emulsified Water	scalar	Visual*	>0.1	NEG		
Sodium	000	ASTM D5185(m)		0		
Boron	ppm	ASTM D5185(m) ASTM D5185(m)	0	0 <1		
Barium	ppm	ASTM D5185(m) ASTM D5185(m)	0	<1 0		
Molybdenum	ppm ppm	ASTM D5185(m)	0	0		
Manganese		ASTM D5185(m) ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	0	1		
Calcium	ppm		50	55		
Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)	330	55 250		
Zinc	ppm	ASTM D5185(m) ASTM D5185(m)	430	323		
Sulfur	ppm	ASTM D5185(m) ASTM D5185(m)	430 760	323 2519		
	ppm oSt					
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	31.3)	



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 310 - Winnipeg Laboratory CALA Sample No. : GFL0107901 Received : 19 Apr 2024 #360 - 555 Hervo Street, Lab Number : 02630239 Tested : 22 Apr 2024 Winnipeg, MB ISO 17025:2017 Accredited Laboratory Unique Number : 5763371 Diagnosed : 22 Apr 2024 - Kevin Marson CA R3T 3L6 Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PrtCount, PrtFilterach, Isohua Lourenco To discuss this sample report, contact Customer Service at 1-800-268-2131. jlourenco@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (204)987-9600 Validity of results and interpretation are based on the sample and information as supplied. F: