

WEAR CONTAMINATION FLUID CONDITION

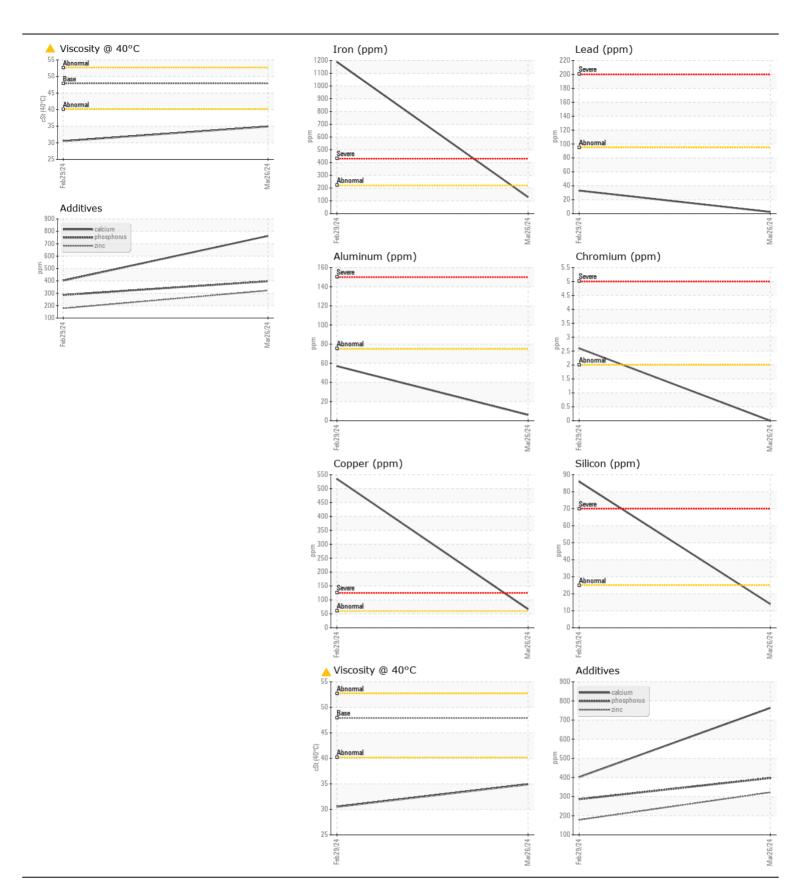
NORMAL NORMAL ABNORMAL



901084

Component Transmission (Auto)

PETRO CANADA HYDREX XV	ALL SEASO	N HY	DRAULI	C OIL	_(40 LT	R)	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info		WC956154	WC956149	
	Sample Date		Client Info		26 Mar 2024	29 Feb 2024	
	Machine Age	kms	Client Info		345944	0	
	Oil Age	kms	Client Info		0	12	
	Filter Age	kms	Client Info		0	12	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	SEVERE	
WEAR	Iron	ppm	ASTM D5185(m)	>220	129	<b>1</b> 189	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>2	0	<b>△</b> 3	
	Nickel	ppm	ASTM D5185(m)	>5	<1	3	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)	>5	0	0	
	Aluminum	ppm	ASTM D5185(m)	>75	6	57	
	Lead	ppm	ASTM D5185(m)	>95	2	33	
	Copper	ppm	ASTM D5185(m)	>60	67	535	
	Tin	ppm	ASTM D5185(m)	>10	0	6	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	VLITE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	14	<b>▲</b> 86	
There is no indication of any contamination in the fluid.	Potassium	ppm	ASTM D5185(m)	>20	1	4	
	Water		WC Method	>0.1	NEG	NEG	
	Silt	scalar	Visual*	NONE	VLITE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		6	58	
The fluid viscosity is lower than typical, possibly indicating the addition of lighter grade fluid. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	0	82	43	
	Barium	ppm	ASTM D5185(m)	0	0	0	
	Molybdenum	ppm	ASTM D5185(m)	0	<1	0	
	Manganese	ppm	ASTM D5185(m)	1	0	11	
	Magnesium	ppm	ASTM D5185(m)	0	16	11	
	Calcium	ppm	ASTM D5185(m)	100	763	402	
	Phosphorus	ppm	ASTM D5185(m)	670	397	286	
	Zinc	ppm	ASTM D5185(m)	850	322	178	
	Sulfur	ppm	ASTM D5185(m)	1600	1653	1586	
	Visc @ 40°C	cSt	ASTM D7279(m)	47.9	<u>▲</u> 34.9	▲ 30.5	





**CALA** ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 870 - St John s : WC956154 Lab Number : 02626118 Unique Number : 5759250 Test Package : MOB 1

Received : 02 Apr 2024 **Tested** : 02 Apr 2024 Diagnosed

: 03 Apr 2024 - Kevin Marson

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To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.