



# {UNASSIGNED} **OR779**

Component

**Hydraulic System** 

PETRO CANADA HYDREX XV ALL S





### **DIAGNOSIS**

#### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

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

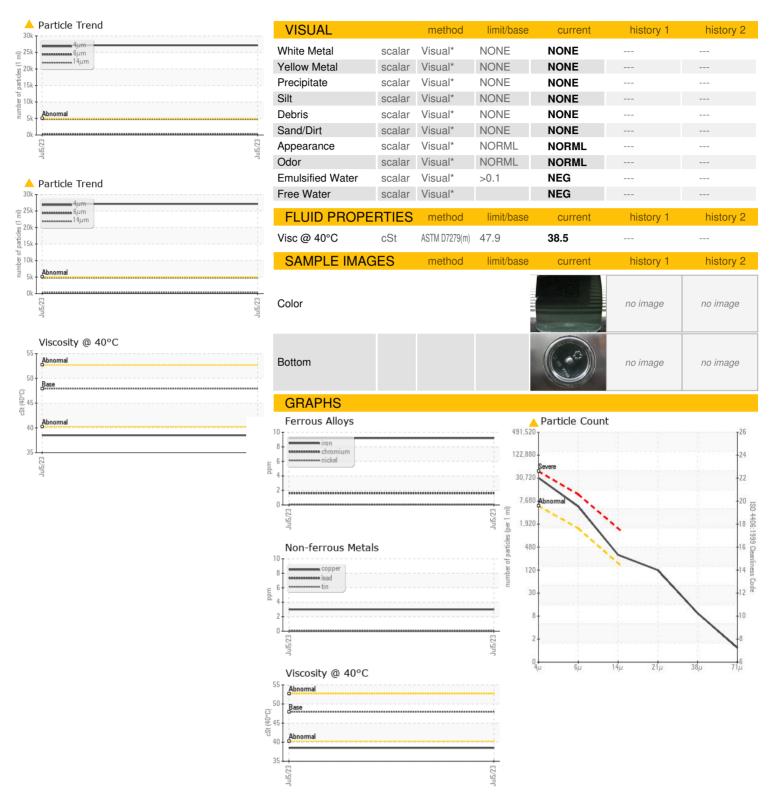
#### **Fluid Condition**

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SEASON HYDRAULIC OIL (	(143 LTR)			Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0087396		
Sample Date		Client Info		05 Jul 2023		
Machine Age	hrs	Client Info		16325		
Oil Age	hrs	Client Info		500		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
WEAR METALS	3	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>20	9		
Chromium	ppm	ASTM D5185(m)	>10	2		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>10	<1		
Lead	ppm	ASTM D5185(m)	>10	0		
Copper	ppm	ASTM D5185(m)	>75	3		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	0	<1		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	<1		
Manganese	ppm	ASTM D5185(m)	1	0		
Magnesium	ppm	ASTM D5185(m)	0	5		
Calcium	ppm	ASTM D5185(m)	100	172		
Phosphorus	ppm	ASTM D5185(m)	670	586		
Zinc Sulfur	ppm	ASTM D5185(m)	850	660 1332		
Lithium	ppm	ASTM D5185(m) ASTM D5185(m)	1600	<1		
	ppm		lineit/lenene		laistan d	history O
CONTAMINAN		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>20	2		
Sodium	ppm	ASTM D5185(m)	00	<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
FLUID CLEANL	INESS		limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>5000	<u>A</u> 27152		
Particles >6µm		ASTM D7647	>1300	<u> 4854</u>		
Particles >14µm		ASTM D7647	>160	<b>265</b>		
			40	A 400		
Particles >21µm		ASTM D7647	>40	<u> 106</u>		
Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647	>10	8		
Particles >21µm		ASTM D7647				



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill : GFL0087396

Received : 02568825 Diagnosed : 5605871

: 10 Jul 2023 : 11 Jul 2023 : Kevin Marson

Diagnostician Test Package : MOB 1 ( Additional Tests: PrtCount ) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Moose Creek, ON CA K0C 1W0 Contact: Charles Bergeron cbergeron@gflenv.com T: (613)538-4853

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.

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