

OIL ANALYSIS REPORT

Sample Rating Trend





2939 Hydraulic System

Machine Id

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (50 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

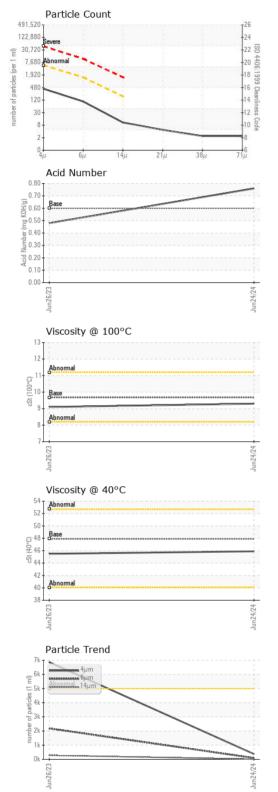
Fluid Condition

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

YDRAULIC OIL (5	0 LTR)		Jun 2023	Jun 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0087736	PC0076494	
Sample Date		Client Info		24 Jun 2024	26 Jun 2023	
Machine Age	yrs	Client Info		7	0	
Oil Age	yrs	Client Info		0	2	
Oil Changed	,	Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	<1	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>20	<1	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>20	0	0	
Lead	ppm	ASTM D5185(m)	>20	0	0	
Copper	ppm	ASTM D5185(m)	>20	2	1	
Tin	ppm	ASTM D5185(m)	>20	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	0	<1	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Manganese	ppm	, ,		0	0	
Magnesium	ppm	ASTM D5185(m)	0	0	<1	
Calcium	ppm	ASTM D5185(m)	100	95	96	
Phosphorus	ppm	ASTM D5185(m)	670	592	641	
Zinc	ppm	ASTM D5185(m)	850	782	779	
Sulfur	ppm	ASTM D5185(m)	1600	1400	1395	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	<1	
Sodium	ppm	ASTM D5185(m)		0	0	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	371	6866	
Particles >6µm		ASTM D7647	>1300	91	2181	
Particles >14μm		ASTM D7647	>160	9	279	
Particles >21µm		ASTM D7647	>40	4	▲ 81	
•						
Particles >38μm		ASTM D7647	>10	2	2	
Particles >38μm Particles >71μm		ASTM D7647 ASTM D7647		2 2	2	



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FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.76	0.48	
VISUAL						hiotom ()
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	▲ VLITE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate	scalar	Visual*	NONE	NONE	NONE	
Silt	scalar	Visual*	NONE	NONE	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*	>0.05	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
FLUID PROPE	DTIES	method	limit/base	ourront.	historyd	hiotom/2
FLUID PROPE	NIIES	memou	IIIIII/Dase	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	45.9	45.5	
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	9.3	9.1	
Viscosity Index (VI)	Scale	ASTM D2270*	192	190	186	
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
PrtFilter				no image		no image





Laboratory Sample No.

Unique Number : 5801586

: PC0087736 Lab Number : 02644047

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 25 Jun 2024 Received

Tested : 26 Jun 2024 Diagnosed : 26 Jun 2024 - Wes Davis

Test Package : IND 2 (Additional Tests: KV100, VI)

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.

WALINGA

938 GLENGARRY CRESCENT FERGUS, ON CA N1M 2W7

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