

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **1967** Component Hydraulic System Fluid PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (25 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

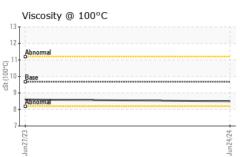
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

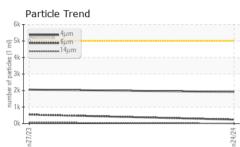
Fluid Condition

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

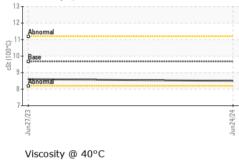
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0087741	PC0076486	
Sample Date		Client Info		24 Jun 2024	27 Jun 2023	
Machine Age	yrs	Client Info		0	0	
Oil Age	yrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	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	<1	<1	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>20	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	
Lead	ppm	ASTM D5185(m)	>20	0	<1	
Copper	ppm	ASTM D5185(m)	>20	2	2	
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	<1	<1	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Manganese	ppm	ASTM D5185(m)	1	<1	<1	
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	
Calcium	ppm	ASTM D5185(m)	100	90	92	
Phosphorus	ppm	ASTM D5185(m)	670	557	622	
Zinc	ppm	ASTM D5185(m)	850	739	750	
Sulfur	ppm	ASTM D5185(m)	1600	1335	1345	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	<1	
Sodium	ppm	ASTM D5185(m)		0	0	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
FLUID CLEAN	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1915	2057	
Dautialaa Cuura		ASTM D7647	>1300	240	544	
Particles >6µm						
Particles >6µm Particles >14µm		ASTM D7647	>160	8	67	
		ASTM D7647 ASTM D7647		8 3	67 20	
Particles >14µm						
Particles >14μm Particles >21μm		ASTM D7647	>40 >10	3	20	
Particles >14µm Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647	>40 >10	3 1	20 0	

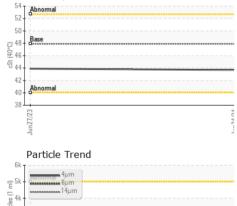


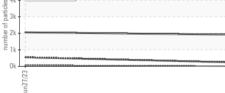












OIL ANALYSIS REPORT

	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.55	0.62	
	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
	Precipitate	scalar	Visual*	NONE	NONE	NONE	
Jun24/24 +	Silt	scalar	Visual*	NONE	NONE	NONE	
Jun2	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
1	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
1	Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	
	Free Water	scalar	Visual*		NEG	NEG	
	FLUID PROPE		method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	47.9	43.7	43.9	
4/24	Visc @ 100°C	cSt		9.67	8.5	8.6	
Jun24/24	Viscosity Index (VI)	Scale	ASTM D2270*	192	175	178	
	SAMPLE IMAC	GES	method	limit/base	current	history1	history2
	Color						no image
	Bottom						no image
Jul	GRAPHS						
	Ferrous Alloys			491,52	Particle Count	t	т26
	E r			122,88	0 -		-24
	E. 5 - nickel			30,72	Severe		-22
					0 Abnormal		
	Jun 27/23			1,68 1,000 Jun 24/24 1,92			-21 -18 -16
	,			Jun24/24 39'2. 39'2.			
	Non-ferrous Meta	IS		Both		N 1	
VCIVC	Copper			Jo 12			
-	E. 5 - Excession lead				0-	\backslash	-12
	0				8+		-10
	Jun27/2			Jun24/24	2-		
	∃ Viscosity @ 40°C			-P	0. 4μ 6μ	14µ 21µ	38µ 71µ
	VISCOSILY @ 40°C				Acid Number		
	⊊ 50 Base			24 24 2010 2017	Base		
	(2) 50 - Base € 45 - Abnormal				0		
****	35						
2	Jun27/23			Jun24/24	Jun27/23		
hC1	л Г			٦u	η		
CALA Laboratory Sample No. Lab Number	: WearCheck - C8-117 : PC0087741 : 02644038 : 5801577	Recei Teste	ved : 25 d : 26	gton, ON L7 Jun 2024 Jun 2024 Jun 2024 - V	9	938 GLENGARR	WALING Y CRESCEN FERGUS, C CA N1M 20

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Submitted By: Derek Gansekoele

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