

Area

(371127)

137622-1216 Hydraulic System

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LH0288385	LH0221623	
	Sample Date		Client Info		07 Jun 2024	23 Jan 2023	
	Machine Age	hrs	Client Info		4549	1580	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	NORMAL	
WEAR	Iron		ASTM D5185(m)	. 50	27	14	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		<1	0	
	Nickel	ppm	ASTM D5185(m) ASTM D5185(m)		<1 <1	<1	
	Titanium	ppm	ASTM D5185(m)	>2	0	0	
	Silver	ppm	ASTM D5185(m) ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	. 0		<1	
		ppm			<1		
	Lead	ppm	ASTM D5185(m)		<1	<1 2	
	Copper Tin	ppm	ASTM D5185(m) ASTM D5185(m)		3	2	
		ppm	()	>2	0		
	Vanadium	ppm	ASTM D5185(m)		NONE		
	White Metal	scalar	Visual*	NONE NONE		NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Silicon	ppm	ASTM D5185(m)	>17	2	3	
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>20000	A 80212	3307	
	Particles >6µm		ASTM D7647	>5000	🔺 16917	733	
	Particles >14µm		ASTM D7647	>640	268	67	
	Particles >21µm		ASTM D7647	>160	83	16	
	Particles >38µm		ASTM D7647	>40	27	0	
	Particles >71µm		ASTM D7647	>10	8	0	
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	19/17/13	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	VLITE	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)		2	2	
Viscosity of sample indicates oil is within SAE 10W range, advise investigate. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Boron	ppm	ASTM D5185(m)	0	-	<1	
	Barium	ppm	ASTM D5185(m)		<1	0	
	Molybdenum	ppm	ASTM D5185(m)		0	0	
	Manganese	ppm	ASTM D5185(m)		- <1	<1	
	Magnesium	ppm	ASTM D5185(m)		3	3	
	Calcium	ppm	ASTM D5185(m)	100	825	1233	
	Phosphorus	ppm	ASTM D5185(m)	670	542	625	
	Zinc	ppm	ASTM D5185(m)	850	651	658	
	Sulfur	ppm	ASTM D5185(m)		3154	4012	
				17.0			

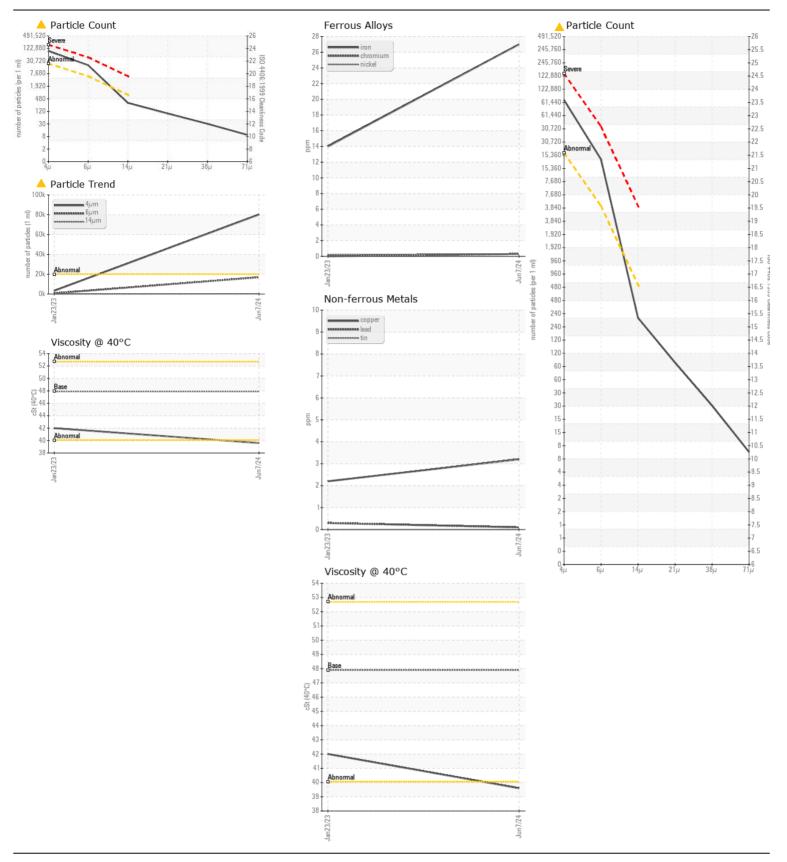
Visc @ 40°C

cSt

ASTM D7279(m) 47.9

42.0

39.6





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F: Submitted By: ?

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