



LIEBHERR R945 055572-1866

Hydraulic System

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (170 LTR)

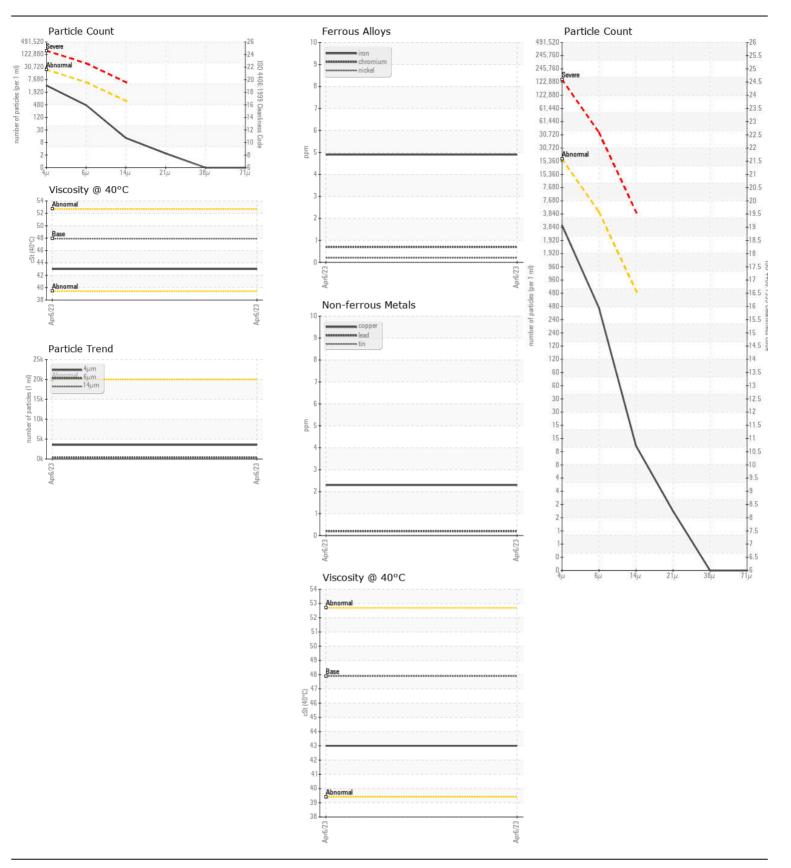
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0226580		
	Sample Date		Client Info		06 Apr 2023		
	Machine Age	hrs	Client Info		562		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.					_		
	Iron	ppm	ASTM D5185(m)		5		
	Chromium	ppm	ASTM D5185(m)		<1		
	Nickel	ppm	ASTM D5185(m)	>5	<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	0	0		
	Aluminum	ppm	ASTM D5185(m)		<1		
	Lead	ppm	ASTM D5185(m)		<1		
	Copper	ppm	ASTM D5185(m)		2		
	Tin	ppm	ASTM D5185(m)	>5	0		
	Vanadium White Metal	ppm	ASTM D5185(m) Visual*				
		scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		2		
The system cleanliness is acceptable for your target ISO 4406	Potassium	ppm	ASTM D5185(m)	>20	<1		
cleanliness code. The system and fluid cleanliness is acceptable.	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647		3547		
	Particles >6µm		ASTM D7647		405		
	Particles >14µm		ASTM D7647		11		
	Particles >21µm		ASTM D7647		2		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/16/11		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		1		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	0	<1		
	Barium	ppm	ASTM D5185(m)	0	0		
	Molybdenum	ppm	ASTM D5185(m)	0	0		
	Manganese	ppm	ASTM D5185(m)	1	<1		
	Magnesium	ppm	ASTM D5185(m)	0	4		
	Calcium	ppm	ASTM D5185(m)	100	987		
	Phosphorus	ppm	ASTM D5185(m)	670	636		
	Zinc	ppm	ASTM D5185(m)	850	693		
	Sulfur	ppm	ASTM D5185(m)	1600	2386		
	Vier @ 1000	- 0+		47.0	40.0		

Sulfur Visc @ 40°C

cSt

ASTM D7279(m) 47.9

43.0





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