



LIEBHERR L566 071183-1758

Component Hydraulic System

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0251933	LH0260620	
nesample at the next service interval to monitor.	Sample Date		Client Info		29 Dec 2023	19 May 2023	
	Machine Age	hrs	Client Info		3102	1190	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>20	12	6	
	Chromium	ppm	ASTM D5185(m)	>10	4	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)	>10	<1	0	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>10	<1	1	
	Lead	ppm	ASTM D5185(m)		7	4	
	Copper	ppm	ASTM D5185(m)	>75	4	2	
	Tin	ppm	ASTM D5185(m)	>10	<1	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		4	4	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Potassium	ppm	ASTM D5185(m)		3	2	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647		4960	10702	
	Particles >6µm		ASTM D7647		167	1184	
	Particles >14µm		ASTM D7647		8	56	
	Particles >21µm		ASTM D7647	>160	3	12	
	Particles >38µm		ASTM D7647		0	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		19/15/10	21/17/13	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar		NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE NORML	NONE NORML	
	Appearance Odor		Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar scalar	Visual* Visual*	NORML >0.1	NEG	NEG	
		Scalal	visuai	>0.1	NEG	NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		1	<1	
	Boron	ppm	ASTM D5185(m)	0	0	<1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		0	0	
	Manganese	ppm	ASTM D5185(m)		0	<1	
	Magnesium	ppm	ASTM D5185(m)	0	2	2	
	Calcium	ppm	. ,	100	585	643	
	Phosphorus	ppm	ASTM D5185(m)	670	461	540	
	Zinc	ppm	ASTM D5185(m)	850	567	594	
	Sulfur	ppm	ASTM D5185(m)	1600	2220	2265	
	A stal Niumah au (ANI)			0.00	0.74		

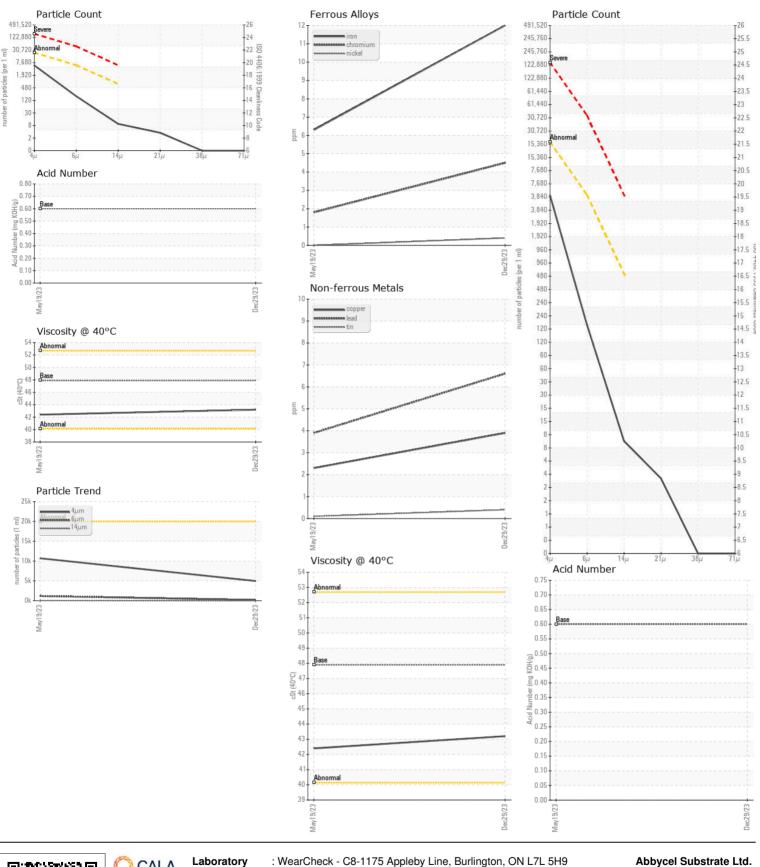
Acid Number (AN) mg KOH/g ASTM D974* 0.60

Visc @ 40°C cSt ASTM D7279(m) 47.9

42.4 ----

0.74

43.2





Validity of results and interpretation are based on the sample and information as supplied.

3545 Ross Road Abbotsford, BC CA V4X 1M6 Contact: Service Manager

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