WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

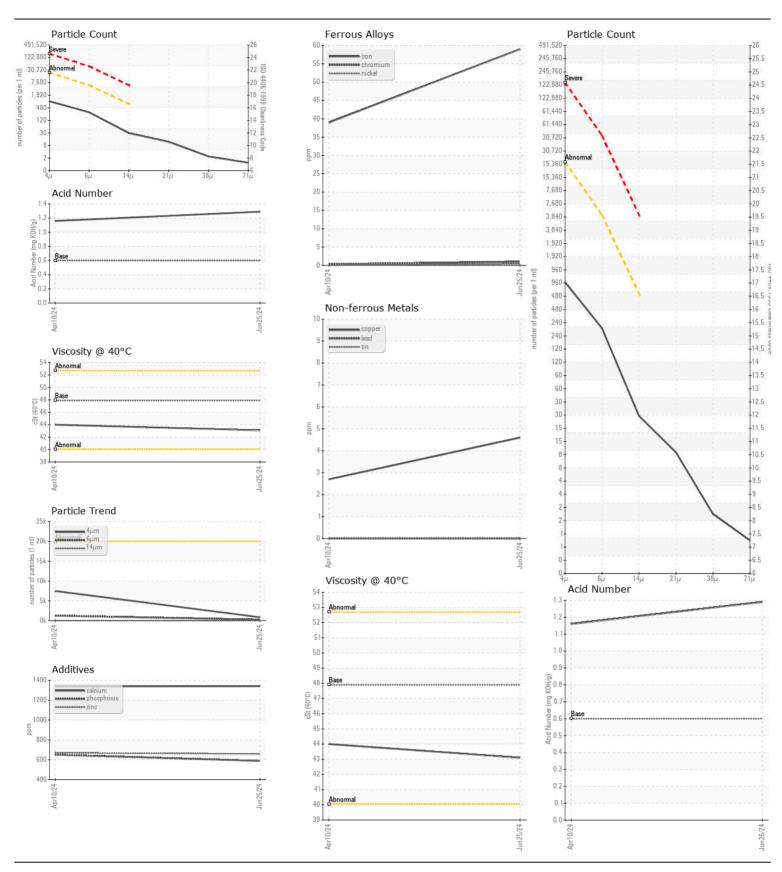


LIEBHERR LH22M 158368-1250

Hydraulic System

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

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0284686	,	
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Date		Client Info		25 Jun 2024	10 Apr 2024	
	Machine Age	hrs	Client Info		1070	500	
	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		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>60	59	39	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		1	<1	
	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)		<1	<1	
	Lead	ppm	ASTM D5185(m)	>5	0	0	
	Copper	ppm	ASTM D5185(m)		5	3	
	Tin	ppm	ASTM D5185(m)	>5	0	0	
	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)	\15	5	3	
CONTAININATION	Potassium	ppm	ASTM D5185(m)		1	1	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	ррпп	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		865	7496	
	Particles >6µm		ASTM D7647		258	1285	
	Particles >14μm		ASTM D7647		26	18	
	Particles >21µm		ASTM D7647		10	7	
	Particles >38µm		ASTM D7647		2	2	
	Particles >71µm		ASTM D7647		1	1	
	Oil Cleanliness		ISO 4406 (c)		17/15/12	20/17/11	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	VLITE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	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	
Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185(m)		<1	<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)		7	7	
	Calcium	ppm	ASTM D5185(m)		1340	1338	
	Phosphorus	ppm	ASTM D5185(m)		588	651	
	Zinc	ppm	ASTM D5185(m)	850	659	670	
	Sulfur	ppm	ASTM D5185(m)		4068	4049	
	Acid Number (AN)	mg KOH/g	ASTM D974*		1.29	1.16	
	Visc @ 40°C	cSt	ASTM D7279(m)	47.9	43.1	44.0	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sample No. Lab Number : 02644613

: LH0284686 Unique Number : 5802152 Test Package : MOBCE

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.

Received **Tested** Diagnosed

: 28 Jun 2024 : 02 Jul 2024

: 02 Jul 2024 - Kevin Marson

BELLEMARE RECYCLAGE - SABLE DES FORGES INC 8750 BOUL INDUSTRIEL TROIS-RIVIERES, QC

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