WEAR CONTAMINATION FLUID CONDITION

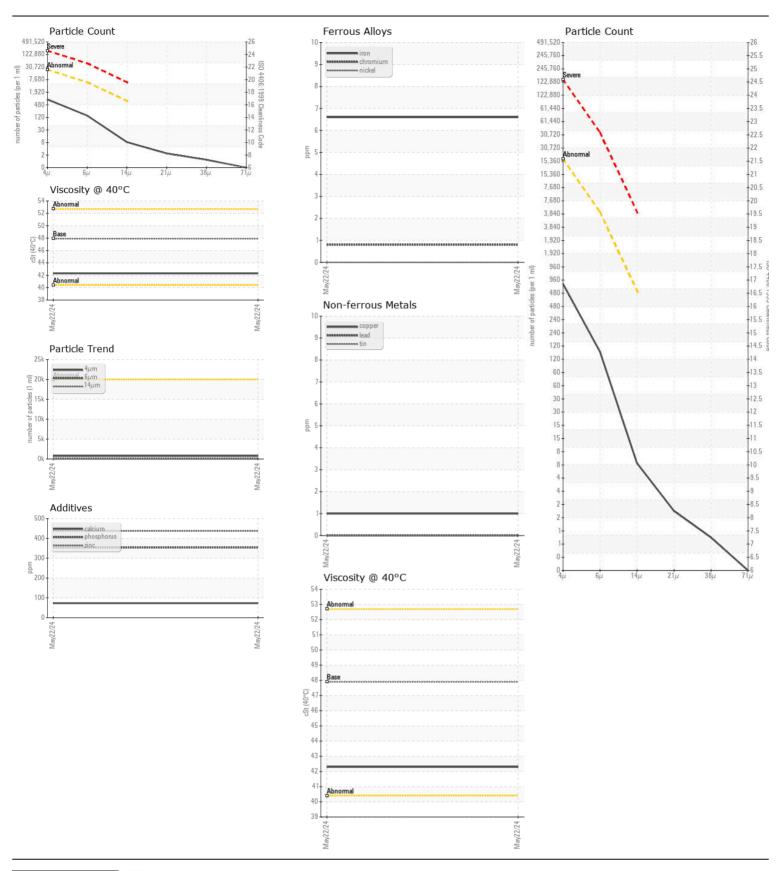
NORMAL NORMAL NORMAL



Machine Id LIEBHERR LH30M 155056

Component
Hydraulic System

PETRO CANADA HYDREX XV	ALL SEASO	NHYI	DRAULIC	COIL	(170 LT	K)	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0288108		
	Sample Date		Client Info		22 May 2024		
	Machine Age	hrs	Client Info		552		
	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	Iron	ppm	ASTM D5185(m)	>50	7		
	Chromium	ppm	ASTM D5185(m)	>5	<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)	>2	0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>2	0		
	Lead	ppm	ASTM D5185(m)	>4	0		
	Copper	ppm	ASTM D5185(m)	>10	1		
	Tin	ppm	ASTM D5185(m)	>2	0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTABINATION	0.1.		AOTH DE (OF ()				
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>17	0		
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Potassium	ppm	ASTM D5185(m)		0		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		763		
	Particles >6µm		ASTM D7647		129		
	Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647		7 2		
	Particles >21µm		ASTM D7647		1		
	Particles >30µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		17/14/10		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance		Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water		Visual*	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1		
Additive levels indicate the addition of a different brand, or type of oil.	Boron	ppm	ASTM D5185(m)		<1		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		3		
	Calcium	ppm	ASTM D5185(m)	100	73		
	Phosphorus	ppm	ASTM D5185(m)	670	354		
	Zinc	ppm	ASTM D5185(m)	850	437		
	Sulfur	ppm	ASTM D5185(m)	1600	954		
	Visc @ 40°C	cSt	ASTM D7279(m)	47.9	42.3		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0288108 Lab Number : 02638516

Received **Tested** Unique Number : 5787678 Diagnosed : 29 May 2024

: 31 May 2024

: 31 May 2024 - Kevin Marson

Test Package : MOB 1 (Additional Tests: PrtCount) 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.

Goodies Trading Ltd. 8150 Aitken Road Chilliwack, BC CA V2R 4H5

Contact: Service Manager

T:

F: