WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL ATTENTION**



(357698)

LIEBHERR LH50M 125637-1216

Hydraulic System

PETRO CANADA ENVIRON MV 46 (--- GAL)

		4					
RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current LH0260570	History1 LH0212575	History2 LH0212561
We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.	Sample Date		Client Info		05 Feb 2024	31 Aug 2023	10 Sep 2022
	Machine Age	hrs	Client Info		5010	4243	2241
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL		ATTENTION
WEAR	PQ		ASTM D8184*	>40	0	0	
has a seed by the seed by the seed of the	Iron	ppm	ASTM D5185(m)	>50	△ 53	<u></u> 55	43
Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.	Chromium	ppm	ASTM D5185(m)	>5	1	1	<1
	Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)		0	0	0
	Aluminum	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Lead	ppm	ASTM D5185(m)	>4	1	<1	<1
	Copper	ppm	ASTM D5185(m)	>10	3	4	3
	Tin	ppm	ASTM D5185(m)	>2	<1	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
CONTAMINATION The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Silicon	ppm	ASTM D5185(m)	>17	2	2	2
	Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>20000	342	312	999
	Particles >6µm		ASTM D7647	>5000	52	87	156
	Particles >14μm		ASTM D7647	>640	5	8	14
	Particles >21μm		ASTM D7647		2	4	4
	Particles >38μm		ASTM D7647		0	0	1
	Particles >71μm		ASTM D7647		0	0	1
	Oil Cleanliness		ISO 4406 (c)		16/13/10	15/14/10	17/14/11
	Silt	scalar	Visual*	NONE	NONE	NONE	NONE
	Debris	scalar	Visual*	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
	Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
	Odor	scalar	Visual*	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	1	1
	Boron	ppm	ASTM D5185(m)	0	<1	1	<1
Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	0	0	0	<1

ppm

ppm

ppm

ppm

cSt

Manganese

Magnesium

Phosphorus

Visc @ 40°C

Calcium

Zinc

Sulfur

ASTM D5185(m) O

ASTM D5185(m) O ppm ASTM D5185(m) 650

ASTM D5185(m) O

ASTM D7279(m) 45.0

ppm ASTM D5185(m) 1420

ASTM D5185(m) O

severe wear.

<1

4

559

279

2469

40.6

607

<1

4

668

346

609

40.6

<1

4

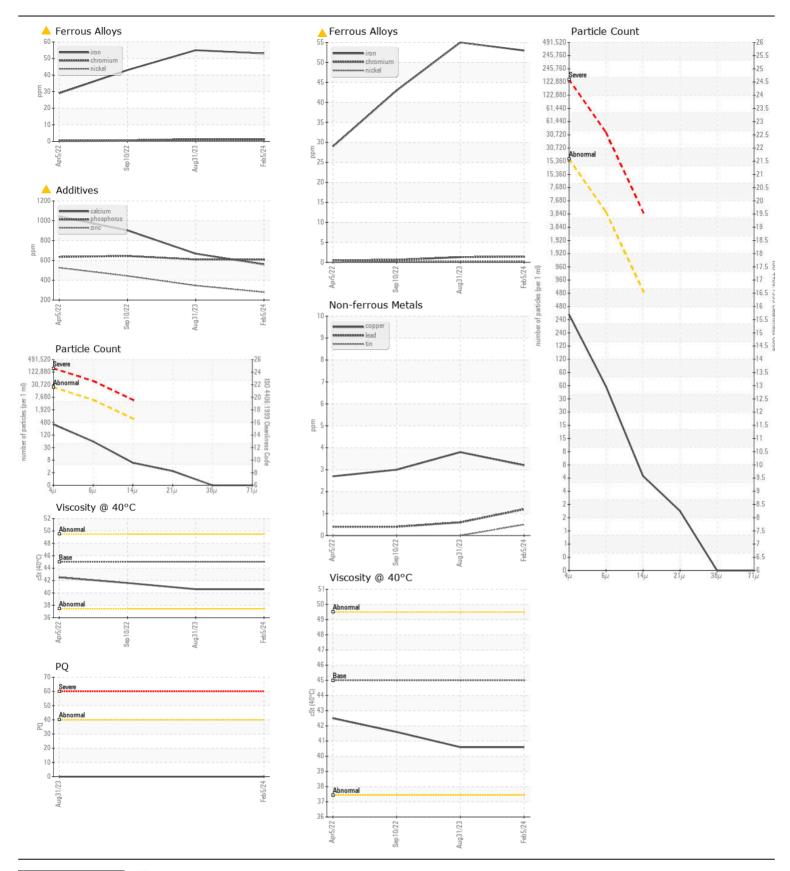
903

443

▲ 2502 **▲** 2953

644

41.6





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0260570 Lab Number : 02618385

Tested Unique Number : 5735495 Diagnosed Test Package: MOB 1 (Additional Tests: PQ, PrtCount)

Received

: 27 Feb 2024

: 28 Feb 2024

: 28 Feb 2024 - Kevin Marson

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

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. **RADIUS RECYCLING - SURREY**

12301 MUSQUEAM DRIVE SURREY, BC CA V3V 3T2

Contact: Service Manager

T: F: