WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL NORMAL**

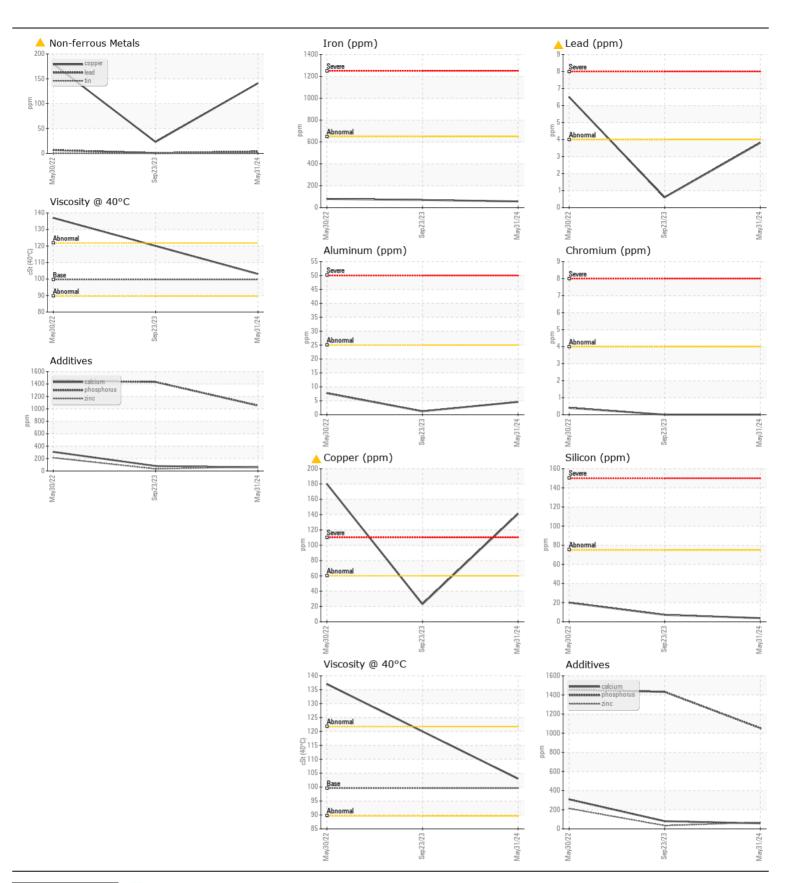


(360376)

LIEBHERR LH40M 134365-1215

Front Right Wheel Hub

PETRO CANADA TRAXON SY	NTHETIC 75	W90	(GAL)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LH0178388	LH0276897	LH0195688
	Sample Date		Client Info		31 May 2024	23 Sep 2023	30 May 2022
	Machine Age	hrs	Client Info		4811	3785	1166
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>650	56	69	79
Copper and lead ppm levels are abnormal. Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
	Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
	Titanium	ppm	ASTM D5185(m)	>4	0	0	<1
	Silver	ppm	ASTM D5185(m)		0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>25	5	1	8
	Lead	ppm	ASTM D5185(m)	>4	<u> </u>	<1	<u>^</u> 6
	Copper	ppm	ASTM D5185(m)	>60	<u> </u>	23	180
	Tin	ppm	ASTM D5185(m)	>4	0	0	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	▲ MODER
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185(m)	>75	4	7	20
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	4
	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	Visual*	NONE	LIGHT	LIGHT	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*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3	5	9
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 severe wear.	Boron	ppm	ASTM D5185(m)	328	66	108	4
	Barium	ppm	ASTM D5185(m)	1	0	<1	<1
	Molybdenum	ppm	ASTM D5185(m)		0	1	7
	Manganese	ppm	ASTM D5185(m)		4	1	9
	Magnesium	ppm	ASTM D5185(m)	1	2	2	2
	Calcium	ppm	ASTM D5185(m)		57	80	308
	Phosphorus	ppm	ASTM D5185(m)		1053	1432	1454
	Zinc	ppm	ASTM D5185(m)		67	34	213
	Sulfur	ppm	ASTM D5185(m)		19224	22461	18641
	Visc @ 40°C	cSt	ASTM D7279(m)	99.6	103	120	137





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0178388 Lab Number : 02639693

Unique Number : 5788855 Test Package : MOB 1

Received : 04 Jun 2024 **Tested** : 05 Jun 2024

Diagnosed

: 06 Jun 2024 - Kevin Marson

Contact: Service Manager

American Iron and Metal

997 CARPIN BEACH RD

SAULT ST MARIE, ON

T: F:

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.

CA P6A 6K4