WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



## LIEBHERR LH40M 146308-1215

Front Right Wheel Hub

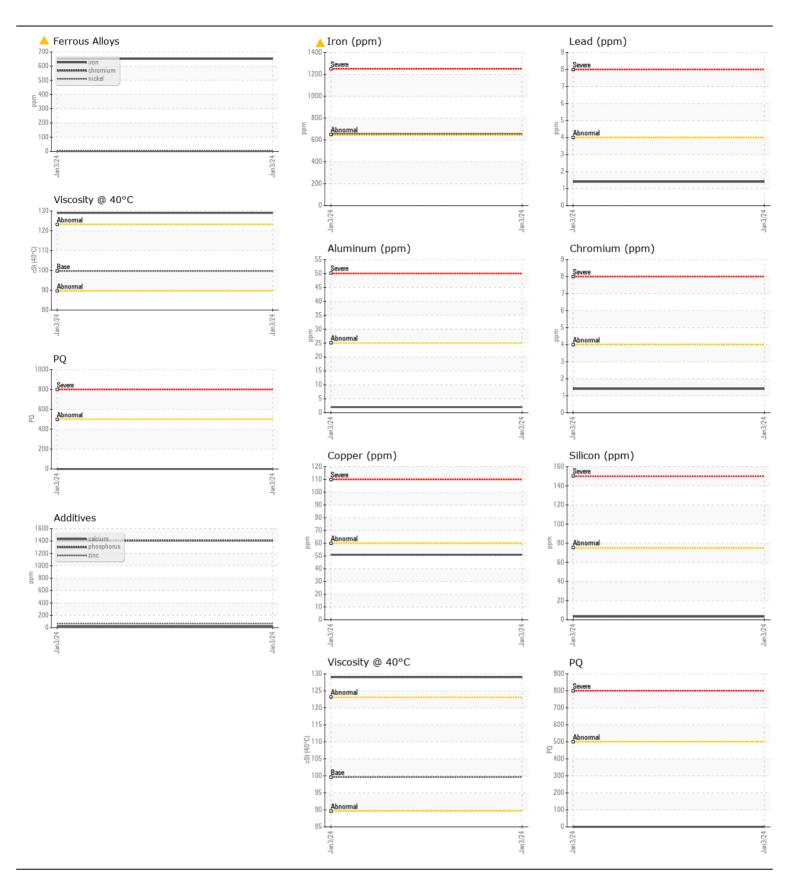
Front Right Wheel Hub PETRO CANADA TRAXON SY	NTHETIC 75	W90	( GAL	)			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LH0281094		
	Sample Date		Client Info		03 Jan 2024		
	Machine Age	hrs	Client Info		511		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184*	>500	0		
Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.	Iron	ppm	ASTM D5185(m)		<u></u> 651		
	Chromium	ppm	ASTM D5185(m)		1		
	Nickel	ppm	ASTM D5185(m)		<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>25	2		
	Lead	ppm	ASTM D5185(m)	>4	1		
	Copper	ppm	ASTM D5185(m)	>60	51		
	Tin	ppm	ASTM D5185(m)	>4	0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	VLITE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>75	3		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		3		
	Water	1-1-	WC Method		NEG		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	<b>Emulsified Water</b>	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		21		
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)		24		
	Barium	ppm	ASTM D5185(m)	1	0		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)	4	8		
	Magnesium	ppm	ASTM D5185(m)		2		
	Calcium	ppm	ASTM D5185(m)		25 140F		
	Phosphorus	ppm	ASTM D5185(m)		1405		
	Zinc Sulfur	ppm	ASTM D5185(m)		68 24234		
	Juliui	ppm	ASTM D5185(m)	17303	24234		

Visc @ 40°C

cSt

ASTM D7279(m) 99.6

129





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number **Unique Number** 

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0281094 : 02607268

: 5708354

Recieved Diagnosed

: 08 Jan 2024 : 09 Jan 2024 Diagnostician : Kevin Marson

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

RICHMOND STEEL RECYCLING

955 ORD ROAD KAMLOOPS, BC CA V2B 7B5

Contact: Service Manager

T:

F: