

LIEBHERR T60-9 022201-17	709						
Front Left Wheel Hub LIEBHERR GEAR MF 80W (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	Lliatomid	Lliataru
	Sample Number	UOIVI	Client Info	LIIIII/ADII	LH0228243	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		20 Feb 2024		
	Machine Age	hrs	Client Info		1045		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		None		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	~500	268		
Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185(m)		2		
	Nickel	ppm	ASTM D5185(m)		0		
	Titanium	ppm	ASTM D5185(m)	70	0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>5	1		
	Lead	ppm	ASTM D5185(m)		8		
	Copper	ppm	ASTM D5185(m)	>50	△ 328		
	Tin	ppm	ASTM D5185(m)		0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	LIGHT		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	19		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	2		
	Water		WC Method	>0.2	NEG		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor		Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185(m)		75		
	Barium	ppm	ASTM D5185(m)		<1		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)		3		
	Magnesium	ppm	ASTM D5185(m)		13		
	Calcium	ppm	ASTM D5185(m)		2638		
	Phosphorus	ppm	ASTM D5185(m)		1541		
	Zinc	ppm	ASTM D5185(m)		1190		

Sulfur

Visc @ 40°C

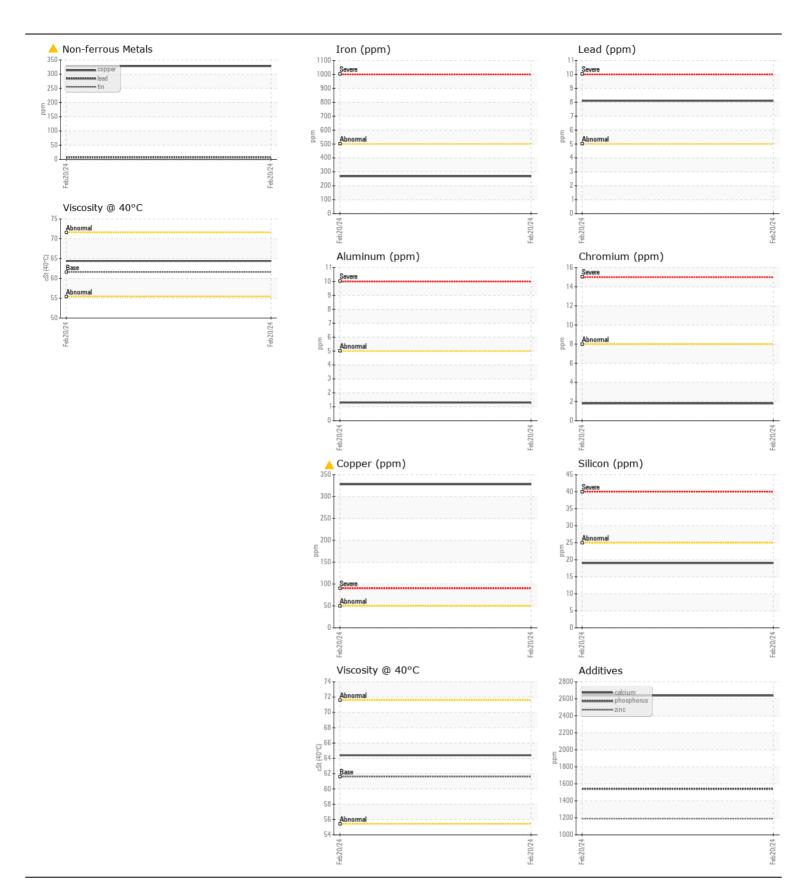
ASTM D5185(m)

ASTM D7279(m) 61.6

ppm

12119

64.4





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02617473

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0228243

Unique Number : 5734583

Received **Tested**

: 22 Feb 2024 : 22 Feb 2024 : 22 Feb 2024 - Kevin Marson

Diagnosed

Test Package : MOBCE (Additional Tests: Visual) 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.

ECOWASTE INDUSTRIES

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Contact: Service Manager

T: F: