WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

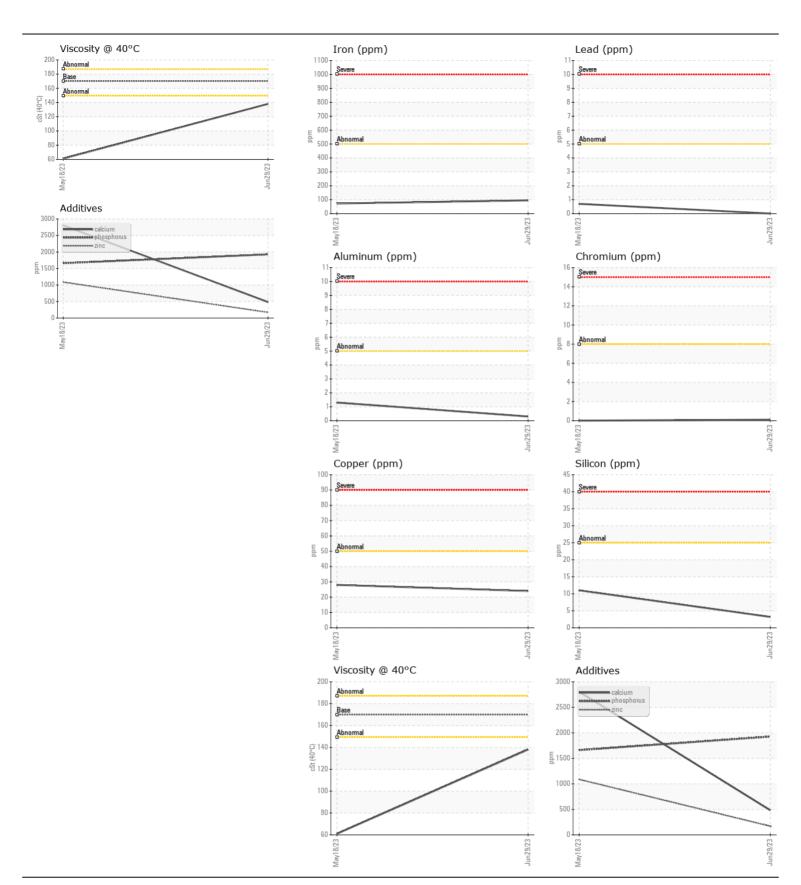
60

(335553)

LIEBHERR T60-9s 021026-1709

Front Right Wheel Hub

LIEBHERR GEAR BASIC 90 LS	(GAL)						
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		LH0274060	LH	
	Sample Date		Client Info		29 Jun 2023	18 May 2023	
	Machine Age	hrs	Client Info		1000	2330	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185(m)	>500	95	72	
	Chromium	ppm	ASTM D5185(m)		<1	0	
	Nickel	ppm	ASTM D5185(m)		0	<1	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>5	<1	1	
	Lead	ppm	ASTM D5185(m)	>5	0	<1	
	Copper	ppm	ASTM D5185(m)	>50	24	28	
	Tin	ppm	ASTM D5185(m)		0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	VLITE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	3	11	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		<1	0	
	Water	ррпп	WC Method	>0.2	NEG	NEG	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium		ACTM DE10E(m)			<1	
Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m) ASTM D5185(m)	0	2 13	78	
	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		0	<1	
	Manganese	ppm	ASTM D5185(m)		<1	<1	
	Magnesium	ppm	ASTM D5185(m)		4	12	
	Calcium	ppm	ASTM D5185(m)		483	2806	
	Phosphorus	ppm	ASTM D5185(m)		1926	1660	
	Zinc	ppm	ASTM D5185(m)	<1	170	1087	
	Sulfur	ppm	ASTM D5185(m)	23468	21724	10124	
	Visc @ 40°C	cSt	ASTM D7279(m)		138	61.0	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: LH0274060 Lab Number : 02639231 Unique Number : 5788393 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested**

: 31 May 2024 Diagnosed

: 31 May 2024 - Kevin Marson

: 31 May 2024

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.

9168-3094 QC INC. 379 DU COLLEGE St Donat de Montcalm, QC CA J0T 2C0

Contact: Service Manager

T: F: