WEAR
CONTAMINATION
FLUID CONDITION

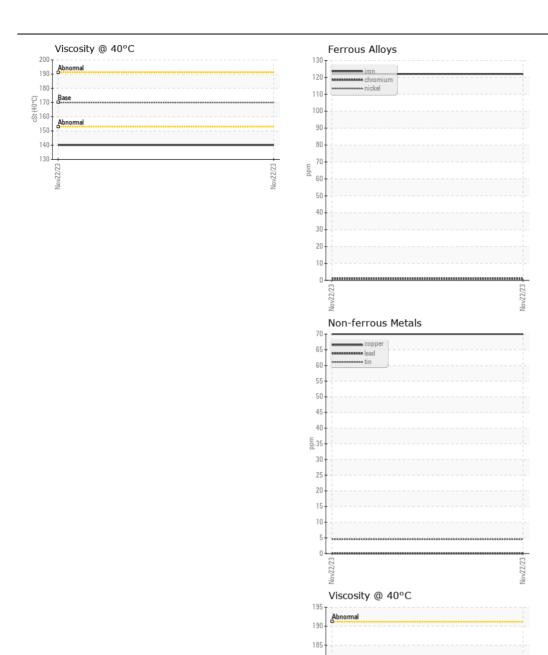
NORMAL NORMAL



## LIEBHERR L586 069044-1761

Component Rear Left Wheel Hub

LIEBHERR GEAR BASIC 90 LS	6 ( GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0267645		
	Sample Date		Client Info		22 Nov 2023		
	Machine Age	hrs	Client Info		1985		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	<b>\1625</b>	122		
	Chromium	ppm	ASTM D5185m		1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	<b>ν</b> τ	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		70		
	Tin	ppm	ASTM D5185m		4		
	Vanadium	ppm	ASTM D5185m	,	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>100	13		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	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	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	6		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	0	0		
	Manganese	ppm	ASTM D5185m	0	15		
	Magnesium	ppm	ASTM D5185m	<1	0		
	Calcium	ppm	ASTM D5185m	<1	13		
	Phosphorus	ppm	ASTM D5185m	2143	1073		
	Zinc	ppm	ASTM D5185m		24		
	Sulfur	ppm	ASTM D5185m		20586		
	Visc @ 40°C	cSt	ASTM D445	170	140		
D							







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: LH0267645 : 06060498 : 10831880 Test Package : CONST

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024 Diagnosed : 16 Jan 2024 Diagnostician : Don Baldridge

**MIDDLE RIVER MARINE** 1771 SOUTH TORRENCE AVE

CHICAGO, IL US 60617

Contact: Scott Molitor

scottmolitor@gomiddleriver.com T:

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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