WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

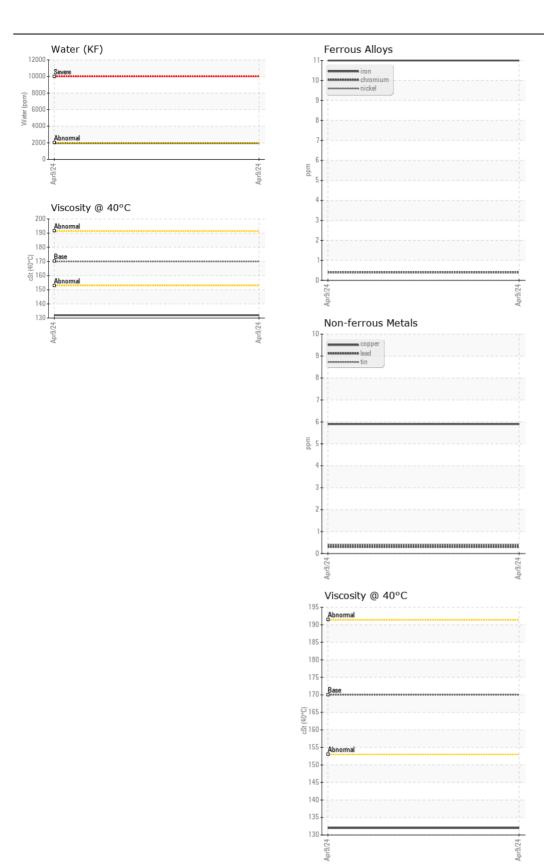


145797-1218 LIEBHERR LH80M 145797-1218

Rear Right Wheel Hub

LIEBHERR GEAR BASIC 90 LS (--- GAL)

LIEBHERR GEAR BASIC 90 LS ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0257712		
	Sample Date		Client Info		09 Apr 2024		
	Machine Age	hrs	Client Info		1579		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	<u> </u>	11		
	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	2		
	Lead	ppm	ASTM D5185m	>4	<1		
	Copper	ppm	ASTM D5185m	>60	6		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	4		
The water content is negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2		
	Water	%	ASTM D6304		0.196		
	ppm Water	ppm	ASTM D6304	>2000	1960		
	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	0.2%		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	0	144		
	Barium	ppm	ASTM D5185m	0	<1		
	Molybdenum	ppm	ASTM D5185m	0	6		
	Manganese	ppm	ASTM D5185m	0	<1		
	Magnesium	ppm	ASTM D5185m	<1	34		
	Calcium	ppm	ASTM D5185m		85		
	Phosphorus	ppm	ASTM D5185m		2336		
	Zinc	ppm	ASTM D5185m		56		
	Sulfur	ppm	ASTM D5185m		19872		
D TEV/101/110 / 111/1001 D 200/11/10 / 0   101/11/1001   11/1001	Visc @ 40°C	cSt	ASTM D445	170	132	 <del></del>	







Laboratory Sample No.

**Lab Number** : 06215173 Unique Number : 11088037 Test Package : CONST ( Additional Tests: KF )

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LH0257712

Received **Tested** Diagnosed

: 19 Jun 2024 : 20 Jun 2024

: 21 Jun 2024 - Sean Felton

**TEXAS PORT RECYCLING - HOUSTON PORT** 8945 MANCHESTER ST HOUSTON, TX

US 77012 Contact: Dale Shaw

dale.shaw@tmrecycling.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (713)921-5545