

WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **NORMAL**



LIEBHERR LH30M 1253-143895

Component Diesel Engine

	5W30 (G	::=/					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0276314		
	Sample Date		Client Info		05 Jan 2024		
	Machine Age	hrs	Client Info		562		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>66	15		
	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m		- <1		
	Titanium	ppm	ASTM D5185m	7	<1		
	Silver		ASTM D5185m	~3	0		
	Aluminum	ppm ppm	ASTM D5185m		4		
	Lead		ASTM D5185m		6		
	Copper	ppm ppm	ASTM D5185m		<u> </u>		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m	/ T	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		12		
	Potassium	ppm	ASTM D5185m		2		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	12.0		
	Sulfation	Abs/.1mm	*ASTM D7415		39.9		
	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		
	Boron	ppm	ASTM D5185m	0	87		
	Barium	ppm	ASTM D5185m	0	28		
	Molybdenum	ppm	ASTM D5185m	64	47		
	Manganese	ppm	ASTM D5185m	0	1		
	Magnesium	ppm	ASTM D5185m	1160	912		
	Calcium	ppm	ASTM D5185m	820	1375		
	Phosphorus	ppm	ASTM D5185m	1160	730		
	Zinc	ppm	ASTM D5185m	1260	884		
	Sulfur	ppm	ASTM D5185m	3000	2087		
	Oxidation	Abs/.1mm	*ASTM D7414		52.7		
			A OTA A DOGGO	44.0			
	Base Number (BN)	mg KOH/q	ASTIVI D2896	11.0	3.9		







Certificate L2367

Laboratory Sample No. **Unique Number**

Lab Number

: LH0276314 : 06060053 : 10831435

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

Recieved Diagnosed

: 16 Jan 2024 Diagnostician : Doug Bogart

: 12 Jan 2024

Test Package : MOBCE (Additional Tests: TBN)

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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) TRAM CONSTRUCTION

9279 E KY 8 GARRISON, KY US 41141

Contact: Service Manager

T:

F: