

WEAR CONTAMINATION **FLUID CONDITION**

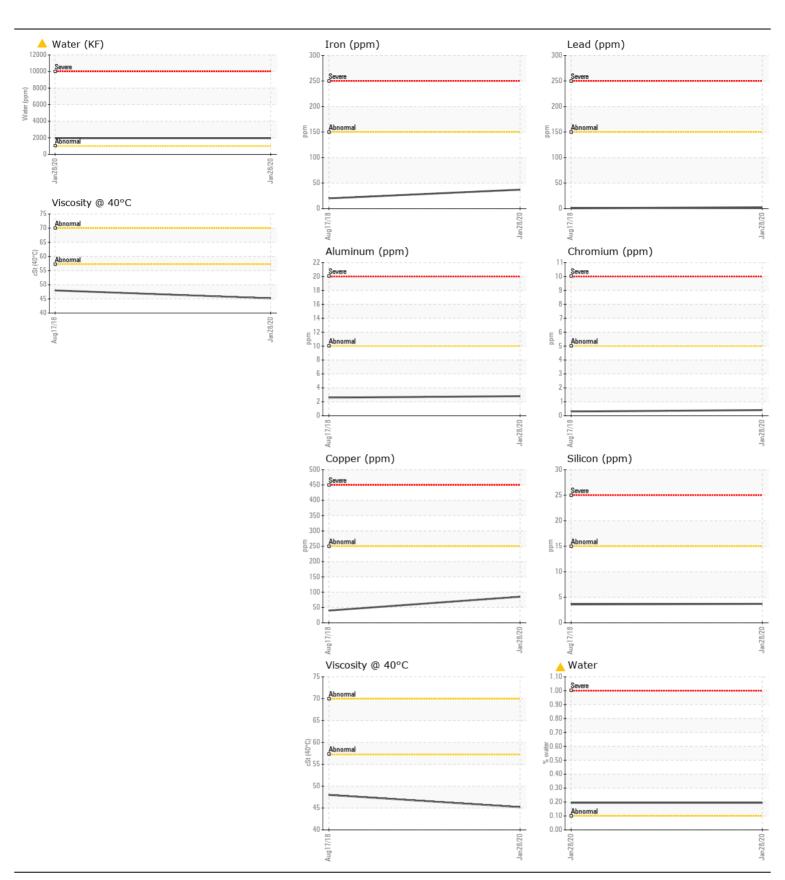
NORMAL **ABNORMAL** NORMAL



LIEBHERR LH50M 1203-88008

Transmission

LIEBHERR MOTOROIL 10W-40	(3 LTR)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LHMC142507	LHMC130744	
	Sample Date		Client Info		28 Jan 2020	17 Aug 2018	
	Machine Age	hrs	Client Info		1957	980	
	Oil Age	hrs	Client Info		1000	480	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>150	37	20	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m	>10	3	3	
	Lead	ppm	ASTM D5185m	>150	2	<1	
	Copper	ppm	ASTM D5185m	>250	85	40	
	Tin	ppm	ASTM D5185m	>5	0	0	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	LIGHT	LIGHT	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	4	4	
There is a light concentration of water present in the fluid.	Potassium	ppm	ASTM D5185m	>20	9	0	
	Water	%	ASTM D6304	>0.1	△ 0.195		
	ppm Water	ppm	ASTM D6304	>1000	<u> </u>		
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		34	36	
The condition of the fluid is acceptable for the time in service.	Boron	ppm	ASTM D5185m		4	6	
	Barium	ppm	ASTM D5185m		1	1	
	Molybdenum	ppm	ASTM D5185m		<1	<1	
	Manganese	ppm	ASTM D5185m		17	12	
	Magnesium	ppm	ASTM D5185m		10	7	
	Calcium	ppm	ASTM D5185m		2987	3134	
	Phosphorus	ppm	ASTM D5185m		977	967	
	Zinc	ppm	ASTM D5185m		1026	1104	
	Sulfur	ppm	ASTM D5185m		7317	8109	
	Visc @ 40°C	cSt	ASTM D445		45.2	47.99	







Unique Number

Laboratory Sample No. Lab Number

: LHMC142507 : 04909985

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

: 8920063

Recieved Diagnosed

Diagnostician : Jonathan Hester

: 12 Feb 2020 : 13 Feb 2020

Test Package : MOB 1 (Additional Tests: KF) Certificate L2367 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) **JR VINAGRO**

2208 PLAINFIELD PIKE JOHNSTON, RI US 02919

Contact: Service Manager

T:

F: