

Machine Id LIEBI Component Front Fluid LIEBH

RECOMMENDATION

Resample at the next service interval to monitor.

LIEBHERR LH50M 1203-88008

Front Left Wheel Hub

LIEBHERR GEAR BASIC 90 LS (--- GAL)

WEAR

All component wear rates are normal.

CONTAMINATION

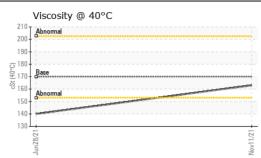
There is no indication of any contamination in the oil.

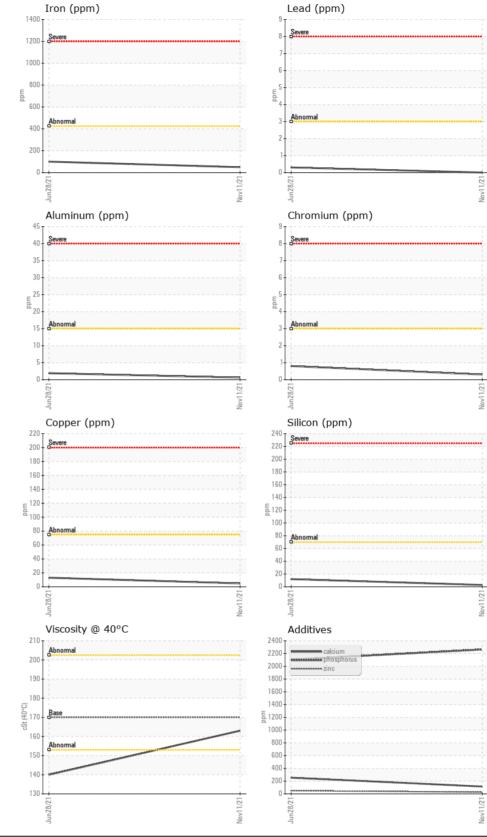
FLUID CONDITION

The condition of the oil is acceptable for the time in service.

GAL)						
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0207308	LH0184646	
Sample Date		Client Info		11 Nov 2021	28 Jun 2021	
Machine Age	hrs	Client Info		5159	4041	
Oil Age	hrs	Client Info		500	1000	
Filter Age	hrs	Client Info		1000	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		N/A	None	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>425	49	100	
Chromium	ppm	ASTM D5185m	>3	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m		<1	<1	
Aluminum	ppm	ASTM D5185m	>15	<1	2	
Lead	ppm	ASTM D5185m	>3	0	<1	
Copper	ppm	ASTM D5185m	>75	5	13	
Tin	ppm	ASTM D5185m	>3	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	LIGHT	LIGHT	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>70	3	12	
Potassium	ppm	ASTM D5185m	>20	1	<1	
Water		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	
Sodium	ppm	ASTM D5185m		18	18	
Boron	ppm	ASTM D5185m	0	23	20	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	<1	2	
Manganese	ppm	ASTM D5185m	0	1	2	
Magnesium	ppm	ASTM D5185m	<1	1	3	
Calcium	ppm	ASTM D5185m	<1	115	254	
Phosphorus	ppm	ASTM D5185m	2143	2264	2104	
Zinc	ppm	ASTM D5185m	<1	26	50	
Sulfur	ppm	ASTM D5185m	23468	25056	20693	
Visc @ 40°C	cSt	ASTM D445	170	163	140	

Submitted By: MIKE MACKINNON





JR VINAGRO Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : LH0207308 Recieved : 19 Nov 2021 2208 PLAINFIELD PIKE Lab Number : 05405312 JOHNSTON, RI Diagnosed : 23 Nov 2021 Unique Number : 9749475 Diagnostician : Angela Borella US 02919 Test Package : MOBCE Contact: Service Manager 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)

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