

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id LIEBE Component Front I Fluid SAE 7

LIEBHERR LH22M 137772-1525

Front Differential

SAE 75W90 (--- GAL)

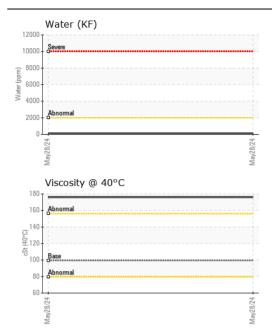
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0232645		
	Sample Date		Client Info		28 May 2024		
	Machine Age	hrs	Client Info		3213		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		None		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	<150	15		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		0		
	Nickel	ppm	ASTM D5185(m)		0		
	Titanium	ppm	ASTM D5185(m)	210	6		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>5	<1		
	Lead	ppm	ASTM D5185(m)		0		
	Copper	ppm	ASTM D5185(m)		2		
	Tin	ppm	ASTM D5185(m)		0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION The water content is negligible. There is no indication of any	Silicon	ppm	ASTM D5185(m)		1		
	Potassium	ppm	ASTM D5185(m)		<1		
contamination in the oil.	Water	%	ASTM D6304*	>0.2	0.011		
	ppm Water	ppm	ASTM D6304*		114		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	HAZY		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
Viscosity of sample indicates oil is within SAE 90 range, advise	Boron	ppm	ASTM D5185(m)	150	4		
investigate. The condition of the oil is acceptable for the time in	Barium	ppm	ASTM D5185(m)	5	<1		
service.	Molybdenum	ppm	ASTM D5185(m)	0	0		
	Manganese	ppm	ASTM D5185(m)		<1		
	Magnesium	ppm	ASTM D5185(m)	0	2		
	Calcium	ppm	ASTM D5185(m)	20	114		
	Phosphorus	ppm	ASTM D5185(m)	1200	2211		
	Zinc	ppm	ASTM D5185(m)	25	67		
	Sulfur	ppm	ASTM D5185(m)	22000	23931		

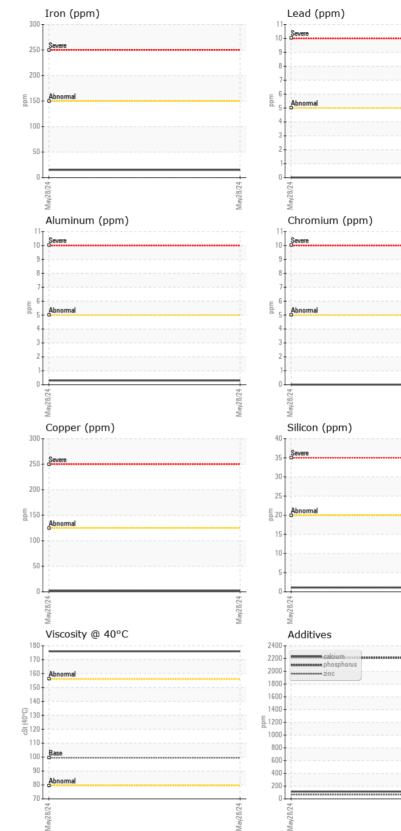
Visc @ 40°C

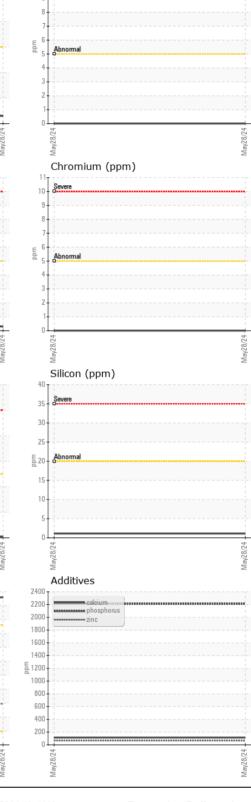
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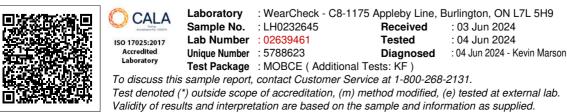
ASTM D7279(m) 99.5

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T: F:

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