

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

Machine Id LIEBHERR LH110 1227-155752

Transmission (Manual)

GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the fluid.

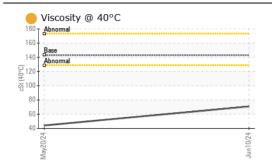
FLUID CONDITION

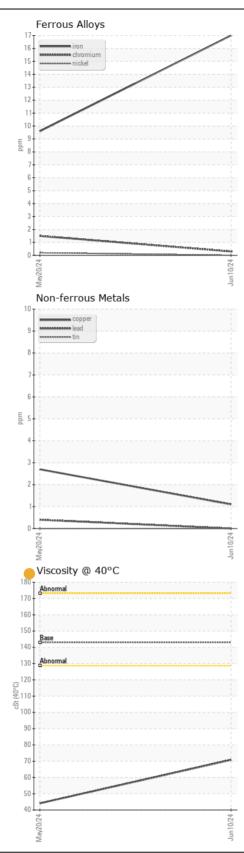
The fluid viscosity is lower than normal. Confirm oil type.

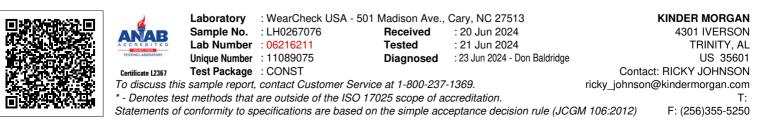
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0267076	LH0267546	
Sample Date		Client Info		10 Jun 2024	20 May 2024	
Machine Age	hrs	Client Info		2998	2578	
Oil Age	hrs	Client Info		967	547	
Filter Age	hrs	Client Info		967	0	
Oil Changed		Client Info		Changed	Not Changd	
Filter Changed		Client Info		Changed	N/A	
Sample Status				ATTENTION	NORMAL	
Iron	ppm	ASTM D5185m	>200	17	10	
Chromium	ppm	ASTM D5185m	>5	<1	2	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Titanium	ppm	ASTM D5185m	_	<1	<1	
Silver	ppm	ASTM D5185m	>7	0	<1	
Aluminum	ppm	ASTM D5185m	>25	2	1	
Lead	ppm	ASTM D5185m	>45	0	<1	
Copper	ppm	ASTM D5185m	>225	1	3	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>125	3	7	
Potassium	ppm	ASTM D5185m	>20	1	2	
Water		WC Method	>0.1	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	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185m	>170	0	2	
Boron	ppm	ASTM D5185m	400	9	41	
Barium	ppm	ASTM D5185m	200	0	0	
Molybdenum	ppm	ASTM D5185m	12	2	12	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	12	34	61	
Calcium	ppm	ASTM D5185m	150	437	1559	
Phosphorus	ppm	ASTM D5185m	1650	717	704	
Zinc	ppm	ASTM D5185m	125	276	804	
Sulfur	ppm	ASTM D5185m	22500	11883	5249	
Visc @ 40°C	cSt	ASTM D445	143	70.8	44.1	
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Contact/Location: RICKY JOHNSON - KINTRI







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