

Machine Id

WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION ATTENTION

145797-1218 LIEBHERR LH80M 145797-1218

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

۱Λ	. Υ	D
V	.~	11

The copper level is abnormal. All other component wear rates are normal.

CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

FI LIID CONDITION				_
		\mathbf{O}		
			NIU	

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

<u> </u>						
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0257720		
Sample Date		Client Info		09 Apr 2024		
Machine Age	hrs	Client Info		1579		
Oil Age	hrs	Client Info		1579		
Filter Age	hrs	Client Info		500		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>60	25		
Chromium	ppm	ASTM D5185m	>40	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>5	2		
Lead	ppm	ASTM D5185m	>5	<1		
Copper	ppm	ASTM D5185m	>15	4 24		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Gilicon		ASTM D5185m	<u>\ 15</u>	7		
Botaccium	ppm	ASTM D5105III	>10	ן ר		
Polassium	ppm	WC Mothod	>20			
	agalar			NONE		
Sill	scalar	*Visual	NONE			
Debris Carad/Dirt	scalar	*\/ievel	NONE			
Sand/Dirt	scalar	*Visual	NORM	NONE		
Appearance	scalar	*\/ievel	NORIVIL	NORML		
Odor Emulaitied Water	scalar	*Visual		NORML		
Emuisilied water	scalar	Visual	>0.1	NEG		
Sodium	ppm	ASTM D5185m		0		
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	25	3		
Calcium	ppm	ASTM D5185m	200	713		
Phosphorus	ppm	ASTM D5185m	300	457		
Zinc	ppm	ASTM D5185m	370	586		
Sulfur	ppm	ASTM D5185m	2500	3145		
Acid Number (AN)	mg KOH/a	ASTM D8045	0.57	0.83		
Visc @ 40°C	cSt	ASTM D445	68	50.7		

Contact/Location: Dale Shaw - TEXHOUWC





Contact/Location: Dale Shaw - TEXHOUWC Page 2 of 2