LIEBHERR

CONSTRUCTION EQUIPMENT



Sample No: LH0169008

Oil Type: GEAR OIL SAE 75W90

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U Sam	ple Infor	mation			
Sample Number		LH0169008	LH0169034	LH0169021	LH0168995
Sample Date		11 Jun 2024	10 Jan 2023	15 Sep 2022	14 Jun 2021
Machine Hours		7137	4988	4420	2099
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Not Changd	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	NORMAL
<u> </u>					
Oilc	ondition				
Visc @ 40°C	cSt	O 110	O 121	O 120	O 105
-1	001	0	0 121	0 120	0 100
Const	aminatio				
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	0 0	O 2	<1	6
Sodium	ppm	○ <1	O 1	O 1	O 1
Potassium	ppm	4	5	4	02
© Wed	ır Metals				
PQ		0 0	0	O 0	
Iron	ppm	<u>0</u> 521	O 754	O 471	O 35
Copper	ppm	O <1	0 <1	0 <1	0 <1
Lead	ppm	0 0	00	0 <1	00
Tin	ppm	0	0	0	0
Aluminum	ppm	O <1	O <1	O <1	O <1
Chromium	ppm	0 6	0 9	0 6	0 <1
Molybdenum	ppm	O <1	0 0	0 0	0 <1
Nickel	ppm	0 <1	01	O <1	0 <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	O 3	0 6	0 4	0 <1
Vanadium	ppm	0	0	0	0
	itives	, v	U	Ü	U
Calcium	ppm	13	O 4	O 5	O 13
Magnesium	ppm	0 7	0 <1	0 <1	0 <1
Zinc	ppm	16	O 15	O 13	9
Phosphorus	ppm	590	0 841	718	0 1053
Barium	ppm	0 0	00	0	0 2
_	1-1-	0 :	0 0	0 0	9



MOOREFIELD EXCAVATING LTD.

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Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: MOOPAL
Unique No: 5812308
Signed: Kevin Marson
Report Date: 10 Jul 2024

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ppm

Boron

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Graphs

