CONSTRUCTION EQUIPMENT



[(336345)] LIEBHERR L586 060438-1334 - Hydraulic System

Sample No: LH0288239 Oil Type: **NOT GIVEN**

Sample Informa	ıtion			
Sample Number	LH0288239	LH0278552	LH0242721	LH
Sample Date	26 Apr 2024	01 Nov 2023	14 Jan 2023	24 Sep 2022
Machine Hours	7991	6957	5019	6018
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	ATTENTION	ABNORMAL
A				
Oil Condition				

Samp	JIE Status		SEVERE	SEVENE	ATTENTION	ADNONIVIAL
0	Oil Co	ndition				
Visc	@ 40°C	cSt	40.4	41.5	○ 40.9	42.3
- 1						

Conta	mination				
Water	%	NEG	NEG	NEG	NEG
Particles >4µm		<u> </u>	<u>122775</u>	30313	O 74116
Particles >6µm		58405	53624	4685	O 10339
Particles >14μm		2804	O 1696	455	248
ISO 4406:1999 (c)		24/23/19	24/23/18	22/19/16	23/21/15
Silicon	ppm	11	O 11	9	O 2
Sodium	ppm	4	4	4	O <1
Potassium	ppm	2	O 2	3	O <1

Wed	ar Metals	•				
Iron	ppm	33	○ 32	O 27	O 15	
Copper	ppm	7	O 7	6	O 2	
Lead	ppm	10	O 12	10	○ 3	
Tin	ppm	○ <1	O <1	O <1	O 0	
Aluminum	ppm	4	4	3	O <1	
Chromium	ppm	7	<u> </u>	5	O <1	
Molybdenum	ppm	0	0	0	0	
Nickel	ppm	0	O <1	O <1	O 0	
Titanium	ppm	<1	0	<1	<1	
Silver	ppm	0	<1	0	0	
Manganese	ppm	<1	0	<1	<1	
Vanadium	ppm	0	0	0	0	

• anadiani	PPIII	•	0	0	•
Add	itives				
Calcium	ppm	1585	1487	1539	744
Magnesium	ppm	19	15	13	5
Zinc	ppm	749	726	719	813
Phosphorus	ppm	622	607	658	714
Barium	ppm	<1	<1	0	0
Boron	ppm	15	9	9	11



Bird's Hill Gravel and Stone Ltd.

1 Terracon Place Winnipeg, MB CA R2J 4B3

Contact: Joel Malkoske Jmalkoske@glacialagg.ca

T: (204)663-0064

F:

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.Chromium ppm levels are abnormal. Ring wear is indicated. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: **BIRWIN** Unique No: 5773487 Signed: Kevin Marson Report Date: 01 May 2024

Submitted By: Vincent Blanchette

LIEBHERR

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Graphs

