LIEBHERR

CONSTRUCTION EQUIPMENT

74710 - Diesel Engine

ppm

ppm

ppm

Sample No: LH0289691

Fuel

Silicon

Sodium

Potassium

Oil Type: DIESEL ENGINE OIL SAE 40





LIEBHERR CANADA LTD.

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8

Cantagt: Jacob

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Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

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Samp	ole Inforn	nation			
Sample Number		LH0289691	LH0270541	LH0270115	
Sample Date		21 Apr 2024	13 Mar 2024	25 Sep 2023	
Machine Hours		2711	2276	430	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	N/A	
Sample Status		NORMAL	NORMAL	ABNORMAL	
Oil Co	ndition				
Visc @ 100°C	cSt	13.7	O 13.4	O 12.1	
Oxidation (PA)	%	59	65	206	
Conto	aminatio	n			
Water	%	NEG	NEG	NEG	
Soot %	%	0	O 0	O 0	
Nitration (PA)	%	53	63	90	
Sulfation (PA)	%	53	53	112	
Glycol	%	NEG	0.0	NEG	

(O)					
Wed	r Metal:	S			
Iron	ppm	4	6	1 0	
Copper	ppm	49	O 264	150	
Lead	ppm	1	7	6	
Tin	ppm	0	O <1	1	
Aluminum	ppm	1	O 2	3	
Chromium	ppm	0	O <1	O <1	
Molybdenum	ppm	57	58	47	
Nickel	ppm	0	O <1	O 0	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	O <1	
Manganese	ppm	0	0	2	
Vanadium	ppm	0	0	0	

0 12

O 11

02

<1.0

7

0<1

<1</p>

Additives						
Calcium	ppm	1038	O 1083	1400		
Magnesium	ppm	942	960	O 975		
Zinc	ppm	1145	O 1187	○ 893		
Phosphorus	ppm	955	O 1006	O 778		
Barium	ppm	() <1	<1	O 27		
Boron	ppm	4	O 4	9 1		

Depot:LIEMISUnique No:5763598Signed:Kevin MarsonReport Date:22 Apr 2024

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Graphs

