LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L580 069442-1762 - Diesel Engine

Sample No: LH0247598

Oil Type: SHELL ROTELLA T4 15W40

SAMPLEINFORM	AATION		
Sample Number	LH0247598	LH0247595	
Sample Date	03 Jan 2024	04 Sep 2023	
Machine Hours	3567	2545	
Oil Hours	0	0	
Oil Changed	N/A	Changed	
Sample Status	NORMAL	NORMAL	
A			

OIL CONDITION							
Visc @ 100°C	cSt	14.0	O 14.0				
Oxidation (PA)	%	68	82				

CONTAMINATION						
Water	%	NEG	NEG			
Soot %	%	0	O.1			
Nitration (PA)	%	63	79			
Sulfation (PA)	%	58	65			
Glycol	%	NEG	NEG			
Fuel	%	<1.0	<1.0			
Silicon	ppm	7	0 8			
Sodium	ppm	2	4			
Potassium	ppm	6	6			

(A)				
WEA	R METAL	S		
Iron	ppm	3	9	
Copper	ppm	2	○ 63	
Lead	ppm	 <1	6	
Tin	ppm	0	O <1	
Aluminum	ppm	2	O 2	
Chromium	ppm	0	O <1	
Molybdenum	ppm	 <1	O <1	
Nickel	ppm	 <1	O <1	
Titanium	ppm	0	0	
Silver	ppm	0	O <1	
Manganese	ppm	0	0	
Vanadium	ppm	0	0	

0						
ADDITIVES						
Calcium	ppm	2191	O 2234			
Magnesium	ppm	17	34			
Zinc	ppm	1124	O 1147			
Phosphorus	ppm	963	○ 897			
Barium	ppm	0	O 2			
Boron	ppm	138	55			



HUBERT ET FILS INC

1012 CHEMIN DE PARC INDUSTRIEL BOIS-FRANC, QC CA J9E 3A9 Contact: Service Manager

Contact. Service Manage

T: F:

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:HUB101BOIUnique No:5710054Signed:Wes DavisReport Date:16 Jan 2024

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GRAPHS

