LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L580 069442-1762 - Diesel Engine

Sample No: LH0247595

Oil Type: SHELL ROTELLA T4 15W40

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SAMPLE INFORMATION					
Sample Number	LH0247595				
Sample Date	04 Sep 2023				
Machine Hours	2545				
Oil Hours	0				
Oil Changed	Changed				
Sample Status	NORMAL				
A					

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

CONTAMINATION						
Soot %	%	0.1				
Nitration (PA)	%	79				
Sulfation (PA)	%	65				
Glycol	%	NEG				
Fuel	%	<1.0				
Silicon	ppm	8				
Sodium	ppm	4				
Potassium	ppm	6				

₩ WEA	R META	LS		
Iron	ppm	9	 	
Copper	ppm	63	 	
Lead	ppm	6	 	
Tin	ppm	() <1	 	
Aluminum	ppm	2	 	
Chromium	ppm	() <1	 	
Molybdenum	ppm	 <1	 	
Nickel	ppm	() <1	 	
Titanium	ppm	0	 	
Silver	ppm	() <1	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	

ADI	DITIVES			
Calcium	ppm	2234	 	
Magnesium	ppm	34	 	
Zinc	ppm	1147	 	
Phosphorus	ppm	897	 	
Barium	ppm	2	 	
Boron	ppm	55	 	



HUBERT ET FILS INC

1012 CHEMIN DE PARC INDUSTRIEL BOIS-FRANC, QC CA J9E 3A9

Contact: Service Manager

T: F:

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill.

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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot:HUB101BOIUnique No:5659294Signed:Wes DavisReport Date:19 Oct 2023

LIEBHERR







GRAPHS

