LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L18 L1819 (S/N 111105) - Diesel Engine

Sample No: LH0273726

Boron

Oil Type: LIEBHERR MOTOROIL 5W30

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SAME	LE INFOR	MATION		
Sample Number		LH0273726	 	
Sample Date		28 Feb 2024	 	
Machine Hours		1499	 	
Oil Hours		477	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OILCO	NDITION			
	_			
Visc @ 100°C	cSt	○ 11.8	 	
Base Number (BN)		6.5	 	
Oxidation (PA)	%	70	 	
CONT	AMINATI	ON		
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	76	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	6	 	
Sodium		2	 	
Potassium	ppm	○ 87	 	
Folassium	ppm	01	 	
(O)				
WEAR	R METALS			
Iron	ppm	7	 	
Copper	ppm	O 11	 	
Lead	ppm	0 0	 	
Tin	ppm	O <1	 	
Aluminum	ppm	O 27	 	
Chromium	ppm	0	 	
Molybdenum	ppm	O <1	 	
Nickel	ppm	00	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	○ <1	 	
Vanadium	ppm	0	 	
	PPIII			
ADDIT	TIVES			
Calcium	ppm	1162	 	
Magnesium	ppm	749	 	
Zinc	ppm	748	 	
Phosphorus	ppm	679	 	
Barium	ppm	2	 	
D	PP111	0 25		

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ppm

PETERSON CONTRACTORS INC

PO BOX A REINBECK, IA US 50669

Contact: WADE VANHAVEN MBERWALD@PCIUS.COM

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Diagnosis

No corrective action is recommended at this time. 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:PETREILHUnique No:10912746Signed:Sean FeltonReport Date:07 Mar 2024

CONSTRUCTION EQUIPMENT





GRAPHS





