LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR PR766 027906-1681 - Diesel Engine

Sample No: LH0254476

Oil Type: LIEBHERR MOTOROIL 5W30

ample Number		LH0254476	LH0254550	LH0254257	
ample Date		01 May 2024	03 Apr 2024	07 Mar 2024	
Machine Hours		2148	1518	882	
Oil Hours		629	635	535	
Oil Changed		Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
010-	ndition				
Visc @ 100°C	cSt	11.2	O 11.1	O 11.5	
Base Number (BN)	mg KOH/g	6.9	6.7	7.0	
Oxidation (PA)	%	54	59	82	
Conta	mination	NEG	NEG	NEG	
	%				
Soot %	%	0.1 70	0.1	0.1 73	
Nitration (PA) Sulfation (PA)	%	50	52	62	
Glycol	%	NEG	NFG	NEG	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	, -	5	03	0 6	
Sodium	ppm	0 2	0 2	0 2	
Potassium	ppm	3	03	02	
	DUIT	- / 3			

Ø was					
Wed	ır Metal	ls			
Iron	ppm	4	O 2	4	
Copper	ppm	39	41	O 29	
Lead	ppm	2	O 0	O 2	
Tin	ppm	1	O 0	O <1	
Aluminum	ppm	○ <1	0	O <1	
Chromium	ppm	0	O 0	O 0	
Molybdenum	ppm	9	O <1	9	
Nickel	ppm	0	O 0	O 0	
Titanium	ppm	<1	0	0	
Silver	ppm	0	O 0	O 0	
Manganese	ppm	() <1	O 0	O <1	
Vanadium	ppm	0	0	0	

Add	itives				
Calcium	ppm	1318	O 1412	O 1364	
Magnesium	ppm	689	O 752	O 767	
Zinc	ppm	782	○ 816	O 877	
Phosphorus	ppm	714	O 792	O 782	
Barium	ppm	1	O 0	4	
Boron	ppm	74	68	77	



HEAVY MACHINES INC. 3930 EAST RAINES RD MEMPHIS, TN US 38118

Contact: J. DAVIS
JDAVIS@HEAVY.LLC.COM

T:

F: (901)260-2245

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot:LEC0051Unique No:11021203Signed:Sean FeltonReport Date:13 May 2024

LIEBHERR

CONSTRUCTION EQUIPMENT





Graphs







