CONSTRUCTION EQUIPMENT

LIEBHERR PR766 024157-1681 - Diesel Engine

Sample No: LH0269729

Oil Type: MOBIL 1 FS 0W40

SAMPLE INFORMATION

Sample Number	LH0269729	LH0269726	LH0269746	
Sample Date	07 Nov 2023	23 Oct 2023	04 Aug 2023	
Machine Hours	1018	944	0	
Oil Hours	0	0	0	
Oil Changed	Changed	Not Changd	Not Changd	
Sample Status	NORMAL	ABNORMAL	SEVERE	

OIL C	ONDIT	ION			
Visc @ 100°C	cSt	0 11.7	0 11.8	13.8	
Oxidation (PA)	%	68	67	69	

CONTAMINATION					
Water	%	NEG	NEG	0.332	
Soot %	%	0	0	0	
Nitration (PA)	%	57	53	66	
Sulfation (PA)	%	55	55	57	
Glycol	%	NEG	NEG	0.0	
Fuel	%	<1.0	0.7	<1.0	
Silicon	ppm	0 10	8	84	
Sodium	ppm	○ 5	○ 5	656	
Potassium	ppm	0 5	0 4	0 476	

0 **WEAR METALS** Iron 0 12 ppm 8 🔘 0 128 Copper ppm 0 15 0 160 Lead ppm 02 0 35 Tin 01 06 ppm Aluminum 01 0 36 ppm $\bigcirc 1$ Chromium 0 $\bigcirc 4$ ppm $\bigcirc 0$ Molybdenum 0 51 ○ 50 $\bigcirc 4$ ppm Nickel 0 $\bigcirc 0$ 0 <1 ppm Titanium 0 00 02 ppm Silver 0 <1 0 <1 0 <1 ppm Manganese 01 03 ppm 0 < 1 Vanadium ppm 0 <

ADDITIVES					
Calcium	ppm	0890	880	2027	
Magnesium	ppm	0 1086	0 1073	0 117	
Zinc	ppm	0 1155	0 1145	982	
Phosphorus	ppm	0 994	○ 994	923	
Barium	ppm	10	07	01	
Boron	ppm	65	67	0 10	



NUT12SAS 5683847 Kevin Marson 24 Nov 2023



NUTRIEN CORY POTASH

12KM WEST OF SASKATOON HWY #7 SASKATOON, SK CA S7K 3L6 Contact: Service Manager

T: F:

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.

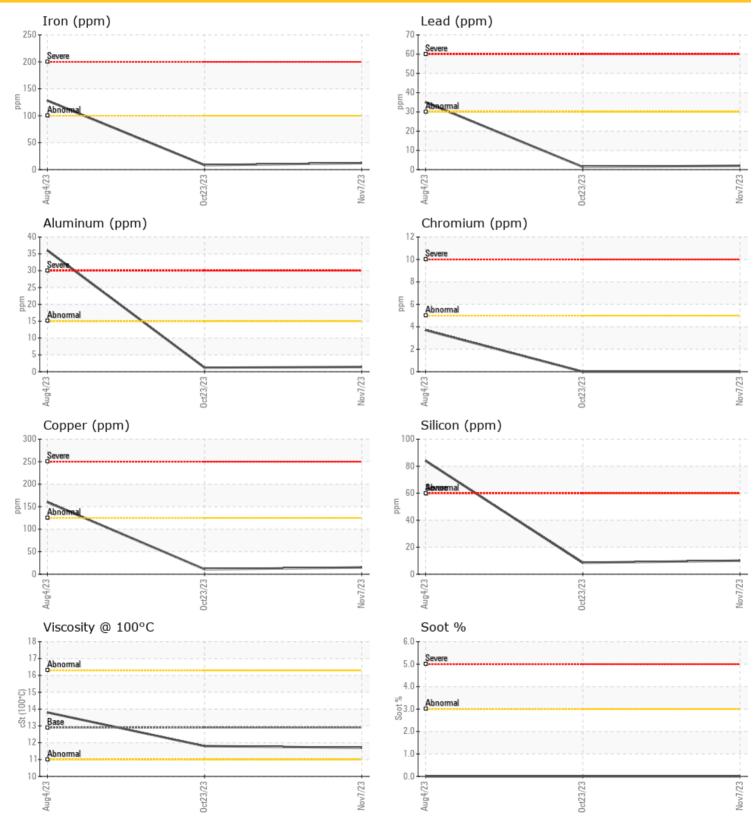






GRAPHS

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