

LIEBHERR PR766 021682-1421 - Diesel Engine

Sample No: LH0254162

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Oil Type: DIESEL ENGINE OIL SAE 5W30

SAMPLE INFORMATION

Sample Number	LH0254162	LH0254161	
Sample Date	28 Dec 2023	28 Nov 2023	
Machine Hours	11118	10573	
Oil Hours	250	250	
Oil Changed	Changed	Changed	
Sample Status	NORMAL	ABNORMAL	

OIL CO	NDITION		
Visc @ 100°C	cSt	0 12.4	0 11.2
Base Number (BN)	mg KOH/g	0 10.6	0 9.9
Oxidation (PA)	%	46	50

CONTAMINATION Water % NEG NEG Soot % % 0 0.1 Nitration (PA) % 59 79 Sulfation (PA) % 46 47 Glycol % NEG NEG Fuel % <1.0 <1.0 Silicon ppm 15 8						
Soot % % 0 0.1 Nitration (PA) % 59 79 Sulfation (PA) % 46 47 Glycol % NEG NEG Fuel % <1.0 <1.0						
Nitration (PA) % 59 79 Sulfation (PA) % 46 47 Glycol % NEG NEG Fuel % <1.0	Water	%	NEG	NEG		
Sulfation (PA) % 46 47 Glycol % NEG NEG Fuel % <1.0	Soot %	%	0	0.1		
Glycol % NEG Fuel % <1.0	Nitration (PA)	%	59	79		
Fuel % <1.0	Sulfation (PA)	%	46	47		
	Glycol	%	NEG	NEG		
Silicon ppm 🔵 15 💿 8	Fuel	%	<1.0	<1.0		
	Silicon	ppm	0 15	8		
Sodium ppm 🔾 5 🔿 0	Sodium	ppm	5	0		
Potassium ppm 4 4	Potassium	ppm	0 4	0 4		

\bigcirc WEAR METALS Iron ppm 6 8 🔘 Copper 09 \bigcirc 200 ppm Lead 01 0 <1 ppm Tin ○ <1 ppm ○ <1 Aluminum 2 $\bigcirc 2$ ppm Chromium ○ <1 ○ <1 ppm Molybdenum 0 <1 ppm <1 Nickel ○ <1 ppm ○ <1 Titanium 0 <1 ○ <1 ppm Silver 0 (0 < 1 ppm Manganese ppm 02 01 Vanadium ppm 0 0

	ITIVES			
Calcium	ppm	0 2207	2379	
Magnesium	ppm	0 602	0 474	
Zinc	ppm	997	950	
Phosphorus	ppm	0 858	0806	
Barium	ppm	0 34	0 19	
Boron	ppm	0 161	0 149	





INTERNATIONAL PAPER

601 COUNTY RD 78 SELMA, AL US 36703 Contact: JERRY BROWN

T: (334)418-5599 F: (334)418-5582

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: INTSELLH Unique No: 10819389 Signed: Don Baldridge **Report Date:** 09 Jan 2024

Contact/Location: JERRY BROWN - INTSELLH

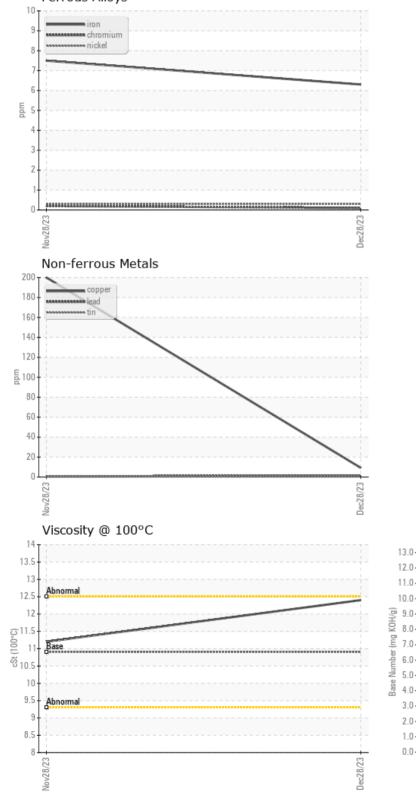




Ferrous Alloys

GRAPHS

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Report Id: INTSELLH [WUSCAR] 06053440 (Generated: 01/11/2024 11:51:35) Rev: 1

Contact/Location: JERRY BROWN - INTSELLH

Base Number

Abnormal

Base

Abnorma

13.0

12.0

11.0

10.0

6.0 5.0

4.0

3.0

2.0

1.0 0.0-

Nov28/23

Dec28/23