3 I I R R **CONSTRUCTION EQUIPMENT**

LIEBHERR PR716 015579-1423 - Diesel Engine

Sample No: LH0243362

Oil Type: NOT GIVEN

SAMPLE INFORMATION

	LH0243362	LH0207887	LH0173915	
	04 Sep 2023	19 Apr 2022	17 Aug 2020	
	0	540	408	
	0	0	408	
	N/A	Changed	Changed	
	NORMAL	NORMAL	NORMAL	
cSt	11.7	0 14.6	0 13.5	
mg KOH/g	07.3	9.4		
%	55	58	70	
%	0.1	0.1	0.1	
%	63	70	83	
%	54	55	59	
%	NEG	NEG	NEG	
%	0.2	<1.0	<1.0	
ppm	8 🔘	0 13	0 41	
ppm	02	0 4	5	
	mg KOH/g % AMINATIO % % % % % % % % ppm	04 Sep 2023 0 0 N/A NORMAL ONDITION cSt 11.7 mg KOH/g 7.3 % 55 AMINATION % % % % 54 % </th <th>04 Sep 2023 19 Apr 2022 0 540 0 0 NA Changed NORMAL NORMAL NDITION 14.6 mg KOH/g 7.3 9.4 % 55 58 AminAtion 0.1 0.1 % 63 70 % 54 55 % NEG NEG % 0.2 <1.0</th> % 8 13	04 Sep 2023 19 Apr 2022 0 540 0 0 NA Changed NORMAL NORMAL NDITION 14.6 mg KOH/g 7.3 9.4 % 55 58 AminAtion 0.1 0.1 % 63 70 % 54 55 % NEG NEG % 0.2 <1.0	04 Sep 2023 19 Apr 2022 17 Aug 2020 0 540 408 0 0 408 NA Changed Changed NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL State 11.7 14.6 13.5 mg KOH/g 7.3 9.4 % 55 58 70 AMINATION % 0.1 0.1 0.1 % 54 55 59 % 54 55 59 % 0.2 <1.0 <1.0 % 0.2 <1.0 <1.0 % 8 13 41

WEAD METAIS

Potassium

ppm

02

Iron	ppm	0 10	08	21	
Copper	ppm	07	0 4	0 15	
Lead	ppm	0 🔘	○ <1	○ <1	
Tin	ppm	0 (○ <1	◯ <1	
Aluminum	ppm	01	01	0	
Chromium	ppm	<mark></mark> <1	○ <1	01	
Molybdenum	ppm	3 9	0 2	09	
Nickel	ppm	0	01	◯ <1	
Titanium	ppm	<1	<1	<1	
Silver	ppm	0	<1	0	
Manganese	ppm	<1	<1	3	
Vanadium	ppm	0	<1	0	

 $\bigcirc 3$

02

	ITIVES				
Calcium	ppm	0 1444	0 1476	2303	
Magnesium	ppm	0 712	○ 743	0 194	
Zinc	ppm	919	966	908	
Phosphorus	ppm	784	0 802	773	
Barium	ppm	0	0	3	
Boron	ppm	0 167	○ 99	55	





AMERICAN STATE EQUIPMENT CO. 2400 NORTH 14TH AVENUE

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. Fuel content negligible. 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

WAUSAU, WI US 54401

Diagnosis

Contact: CHRIS BARTNIK cbartnik@amstate.com T: (715)675-6900 F: (715)675-9748

further service.

Report Id: LEC0008 [WUSCAR] 05942899 (Generated: 09/08/2023 12:29:26) Rev: 1

Contact/Location: CHRIS BARTNIK - LEC0008

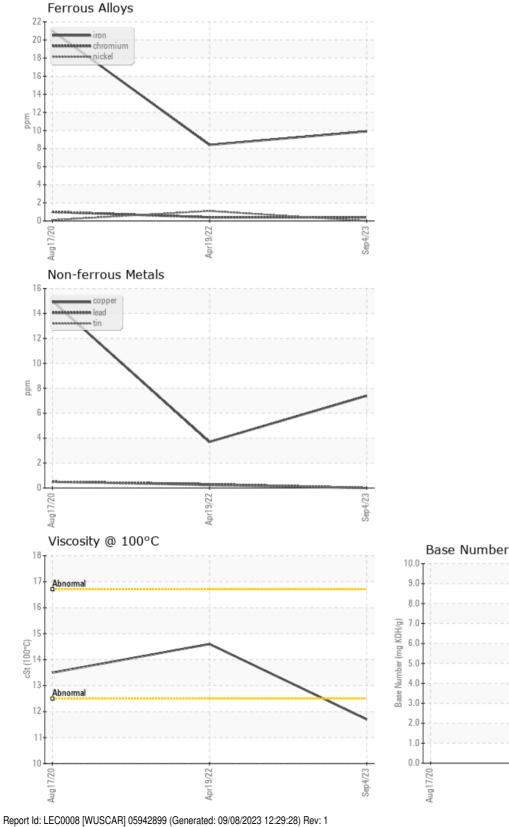






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GRAPHS



Contact/Location: CHRIS BARTNIK - LEC0008

Apr19/22

Sep4/23