

LIEBHERR

CONSTRUCTION EQUIPMENT



[[IMPALA TERM]] LIEBHERR PR776 D5 (S/N 22561) - Diesel Eng

Sample No: LH0264696

Oil Type: LIEBHERR



STATE MACHINERY
 160 WEST AIRLINE DR
 KENNER, LA
 US 70062
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 T: x:
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SAMPLE INFORMATION

Sample Number	LH0264696	LH0254059	LH0254060	---
Sample Date	19 Sep 2023	22 Apr 2023	21 Apr 2023	---
Machine Hours	1896	1162	1162	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	12.5	11.2	11.3	---
Base Number (BN)	mg KOH/g	13.8	6.5	6.3	---
Oxidation (PA)	%	53	80	81	---



CONTAMINATION

Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	103	79	78	---
Sulfation (PA)	%	50	63	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.6	0.6	---
Silicon	ppm	6	6	6	---
Sodium	ppm	6	2	2	---
Potassium	ppm	4	<1	<1	---



WEAR METALS

Iron	ppm	10	10	10	---
Copper	ppm	39	217	214	---
Lead	ppm	<1	2	2	---
Tin	ppm	<1	1	1	---
Aluminum	ppm	3	2	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	1	8	8	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	1	1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	3766	1428	1406	---
Magnesium	ppm	149	757	747	---
Zinc	ppm	1065	835	820	---
Phosphorus	ppm	883	690	676	---
Barium	ppm	<1	0	0	---
Boron	ppm	170	54	54	---

Diagnosis

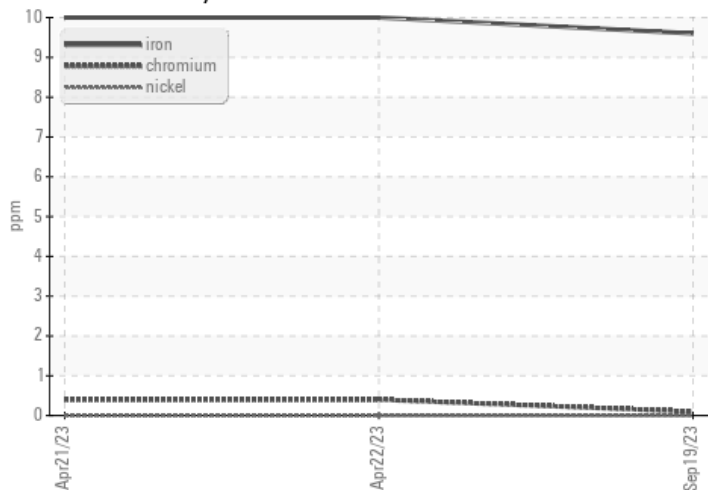
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: STAKEN
 Unique No: 10709952
 Signed: Wes Davis
 Report Date: 24 Oct 2023

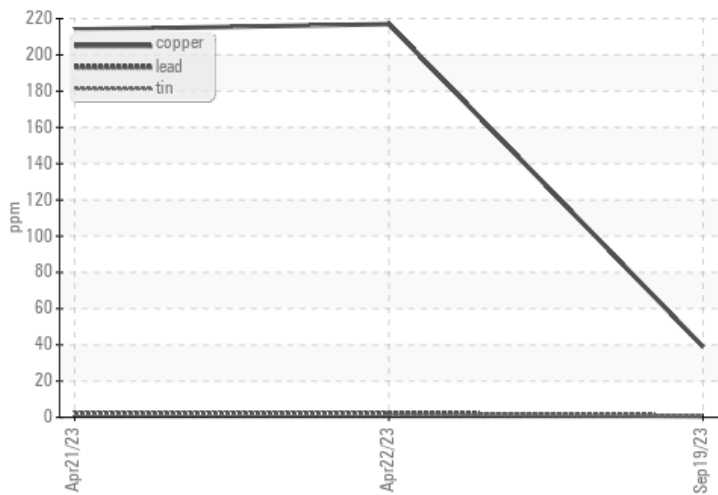


GRAPHS

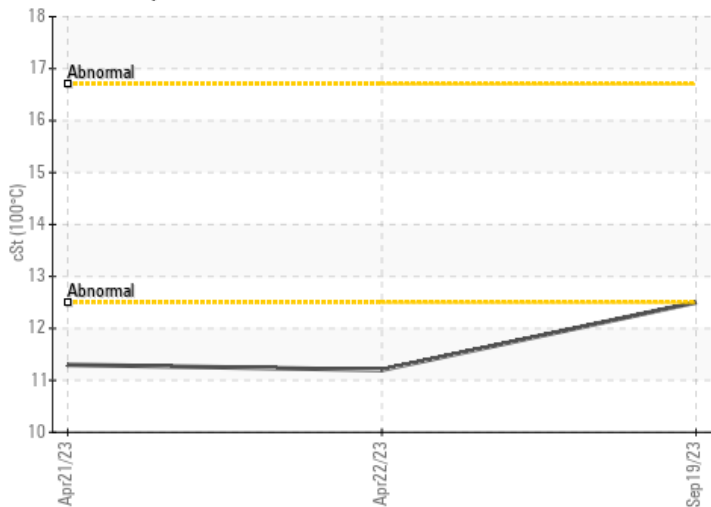
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

