

LIEBHERR

CONSTRUCTION EQUIPMENT



[(336347)] LIEBHERR LH30C126039-1526 - Diesel Engine

Sample No: LH0188344

Oil Type: DIESEL ENGINE OIL SAE 15W40



SAMPLE INFORMATION

Sample Number	LH0188344	LH0188342	LH0188332	LH0188335
Sample Date	24 Nov 2023	17 Aug 2023	30 Jun 2023	25 May 2023
Machine Hours	500	500	5250	500
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

National Salvage Ltd.
206-33 Street N
Lethbridge, AB
CA T1H 3Z5
Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.3	2.5	13.6	13.0
Oxidation (PA)	%	61	59	55	59

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	57	55	46	58
Sulfation (PA)	%	52	52	50	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	2.1	<1.0	<1.0
Silicon	ppm	6	6	6	6
Sodium	ppm	2	1	1	<1
Potassium	ppm	0	2	0	<1

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	3	3	2	3
Copper	ppm	5	4	1	3
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	1	1	1	2
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	58	57	57	59
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

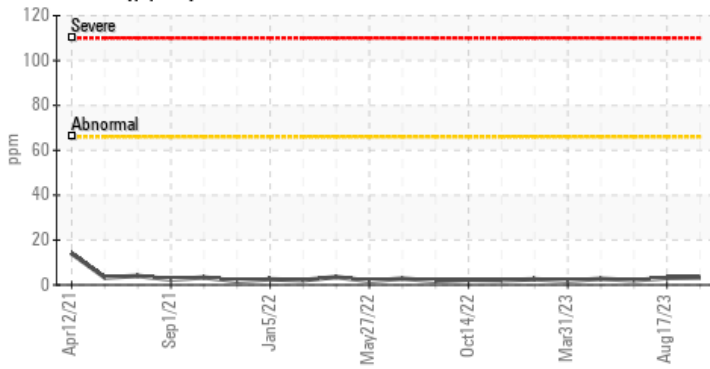
Calcium	ppm	1072	1097	1081	1093
Magnesium	ppm	938	960	946	964
Zinc	ppm	1167	1217	1184	1209
Phosphorus	ppm	1006	1089	1065	1093
Barium	ppm	<1	0	0	0
Boron	ppm	2	2	2	3

Depot: NATLET
Unique No: 5684768
Signed: Wes Davis
Report Date: 29 Nov 2023

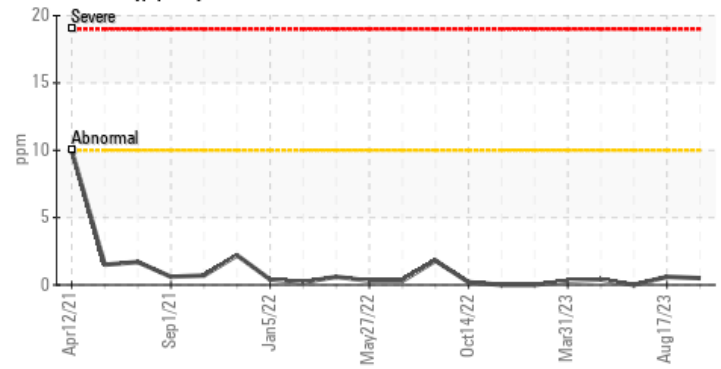


GRAPHS

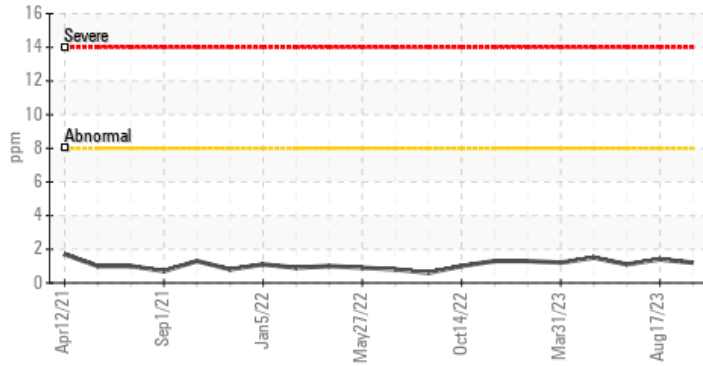
Iron (ppm)



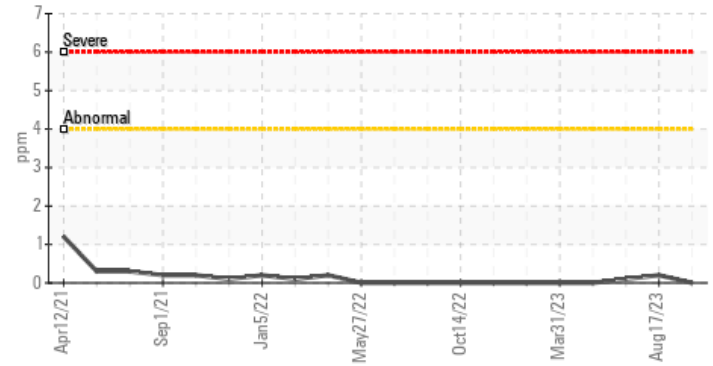
Lead (ppm)



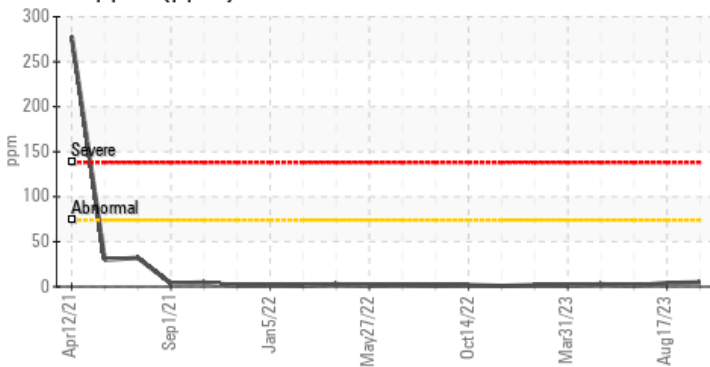
Aluminum (ppm)



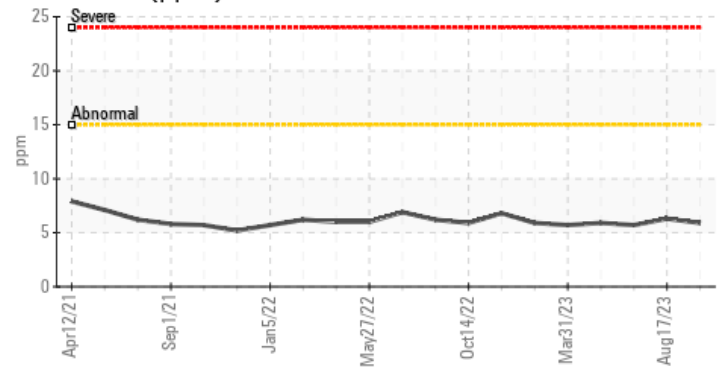
Chromium (ppm)



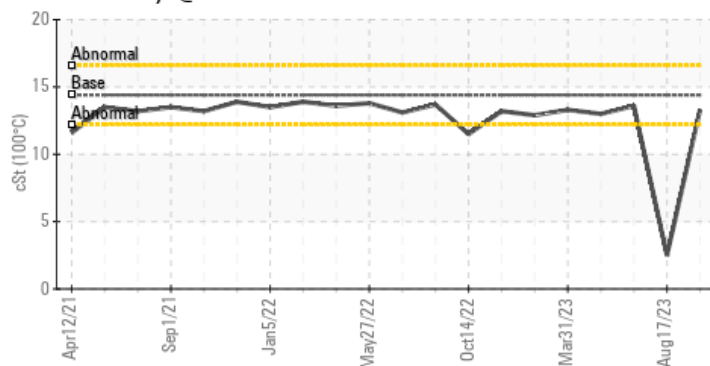
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

