

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 099527-1253 - Diesel Engine

Sample No: LH0284024

Oil Type: PETRO CANADA 10W40



#### SAMPLE INFORMATION

Sample Number	LH0284024	LH0250575	LH0260642	LH0246871
Sample Date	24 Jan 2024	13 Sep 2023	26 Apr 2023	08 Feb 2023
Machine Hours	12056	11483	10800	10338
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

West Coast Metal Recycling

5771 Production Way

Langley, BC

CA V3A 4N5

Contact: Terry .

terry@gotmetal.ca

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#### OIL CONDITION

Visc @ 100°C	cSt	13.1	13.6	13.5	13.0
Oxidation (PA)	%	69	78	67	102



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	82	87	77	108
Sulfation (PA)	%	55	60	53	74
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	7	13
Sodium	ppm	1	2	2	2
Potassium	ppm	<1	2	<1	<1

#### 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.



#### WEAR METALS

Iron	ppm	4	4	4	7
Copper	ppm	1	2	2	5
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	1	1	1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	58	63	59	62
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1059	1255	1114	1152
Magnesium	ppm	942	880	979	1000
Zinc	ppm	1191	1240	1236	1209
Phosphorus	ppm	989	1091	1104	1036
Barium	ppm	0	0	0	0
Boron	ppm	<1	8	<1	<1

Depot: WES577LAN

Unique No: 5721128

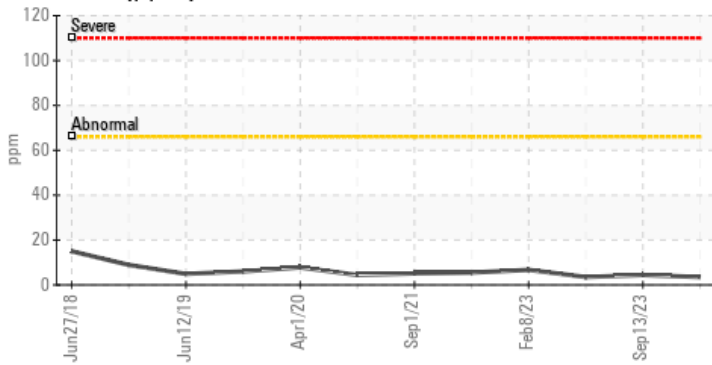
Signed: Bill Quesnel

Report Date: 30 Jan 2024

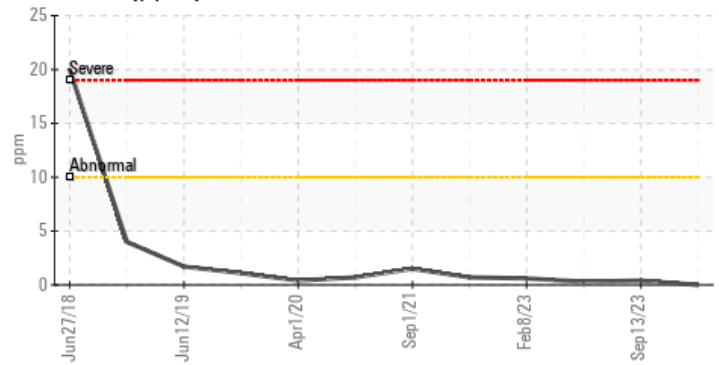


### GRAPHS

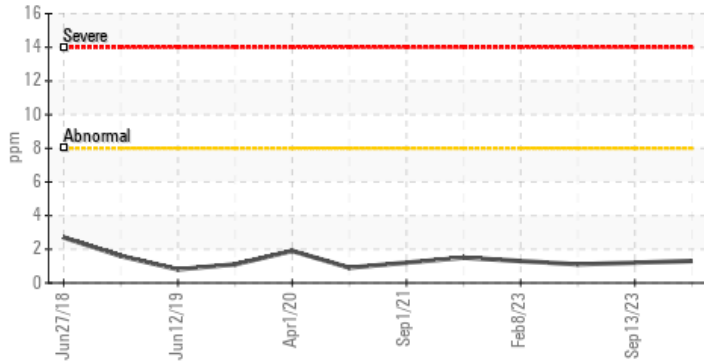
Iron (ppm)



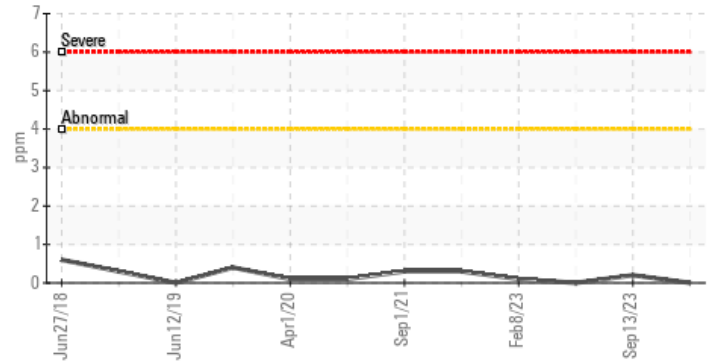
Lead (ppm)



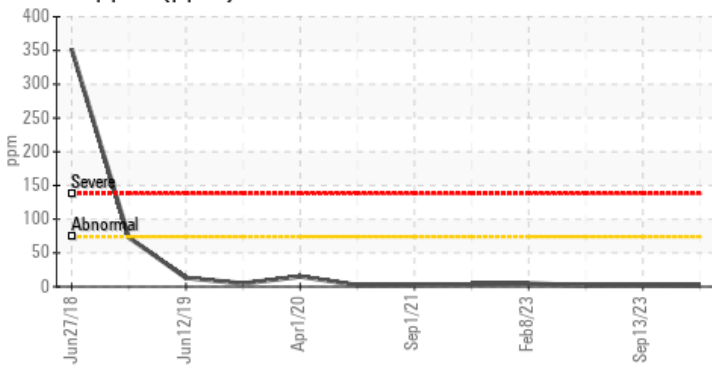
Aluminum (ppm)



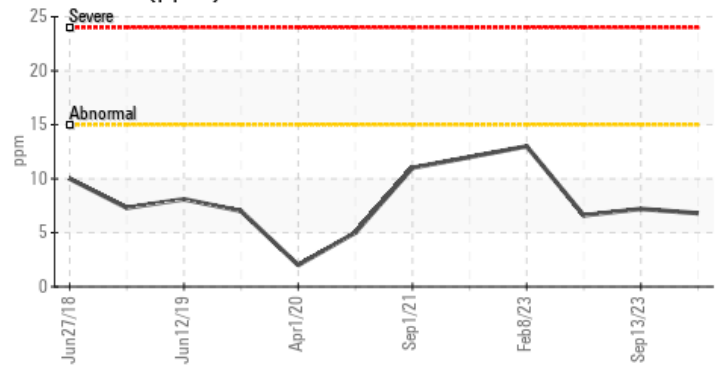
Chromium (ppm)



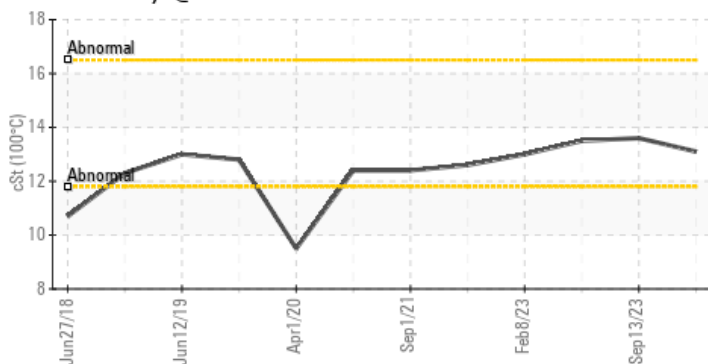
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

