

LIEBHERR

CONSTRUCTION EQUIPMENT



[[583543]] LIEBHERR LH30M 112349-1253 - Diesel Engine

Sample No: LH0279004

Oil Type: PETRO CANADA DURON UHP E6 10W40



SAMPLE INFORMATION

Sample Number	LH0279004	LH0274755	LH0261538	LH
Sample Date	06 Nov 2023	30 Aug 2023	11 Jun 2023	06 Apr 2023
Machine Hours	0	10003	9416	8940
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

GREEN METALS CANADA

224 BEARDS LANE
WOODSTOCK, ON
CA N4S 7W3

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.0	13.3	12.8
Oxidation (PA)	%	71	72	64	66



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	74	79	67	71
Sulfation (PA)	%	55	59	52	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.6
Silicon	ppm	6	7	6	6
Sodium	ppm	2	2	1	1
Potassium	ppm	<1	5	0	0



WEAR METALS

Iron	ppm	3	4	3	3
Copper	ppm	2	3	2	2
Lead	ppm	2	3	1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	1	<1	1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	59	61	59	60
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1069	1086	1099	1139
Magnesium	ppm	966	1030	969	979
Zinc	ppm	1206	1242	1231	1217
Phosphorus	ppm	987	1101	1124	1086
Barium	ppm	<1	0	0	0
Boron	ppm	3	1	2	5

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.

Depot: GRE224WOO

Unique No: 5671599

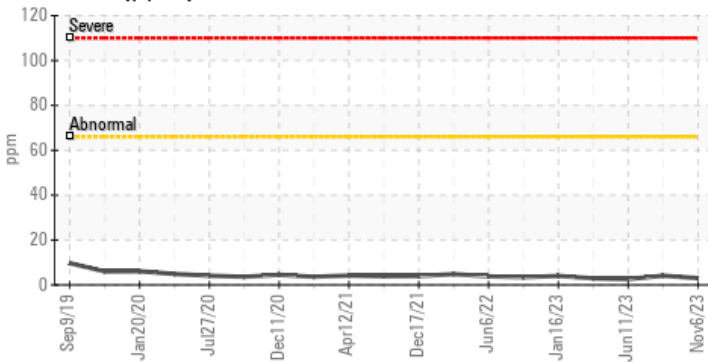
Signed: Wes Davis

Report Date: 07 Nov 2023

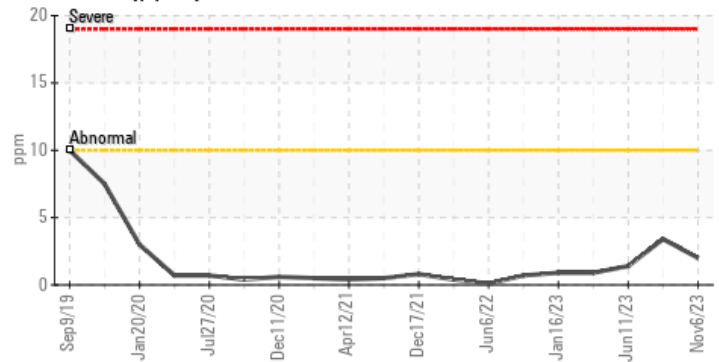


GRAPHS

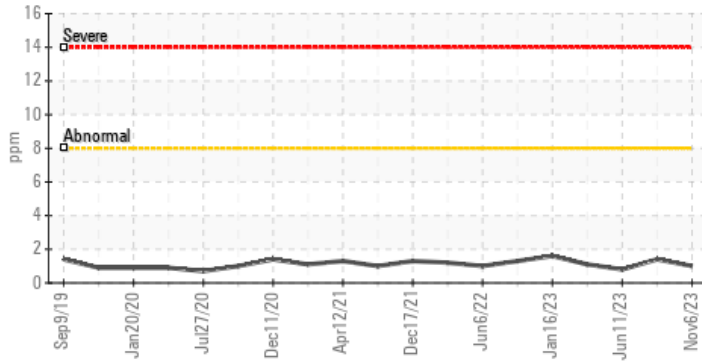
Iron (ppm)



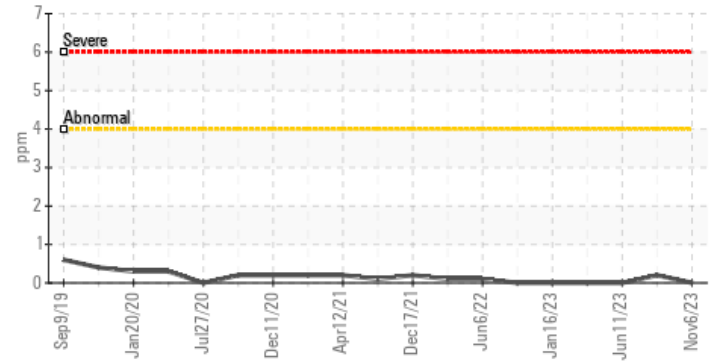
Lead (ppm)



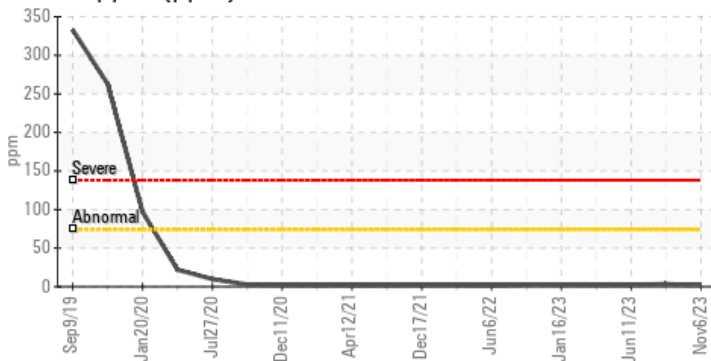
Aluminum (ppm)



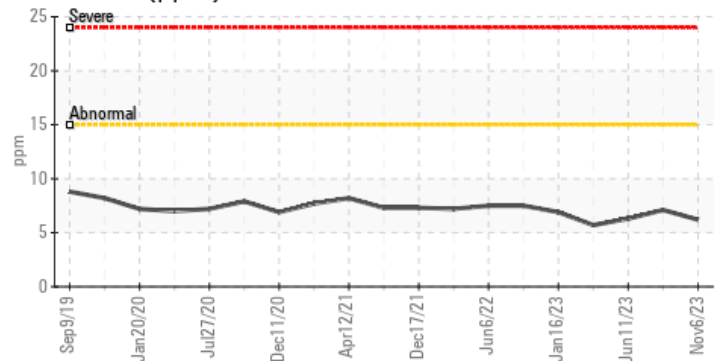
Chromium (ppm)



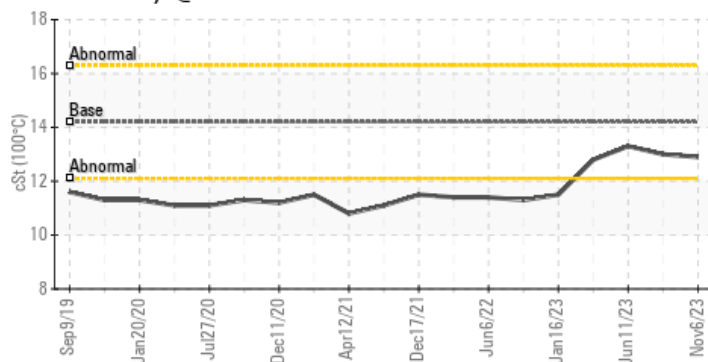
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

