

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 112349-1253 - Diesel Engine

Sample No: LH0278705

Oil Type: PETRO CANADA DURON UHP E6 10W40



SAMPLE INFORMATION

Sample Number	LH0278705	LH0279004	LH0274755	LH0261538
Sample Date	22 Feb 2024	06 Nov 2023	30 Aug 2023	11 Jun 2023
Machine Hours	11476	0	10003	9416
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

GREEN METALS CANADA

224 BEARDS LANE
WOODSTOCK, ON
CA N4S 7W3

Contact: Jamie Depotie
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OIL CONDITION

Visc @ 100°C	cSt	13.4	12.9	13.0	13.3
Oxidation (PA)	%	62	71	72	64



CONTAMINATION

Water	%	0.019	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	63	74	79	67
Sulfation (PA)	%	52	55	59	52
Glycol	%	0.0	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	7	6
Sodium	ppm	1	2	2	1
Potassium	ppm	<1	<1	5	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. 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	2	3	4	3
Copper	ppm	1	2	3	2
Lead	ppm	<1	2	3	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	1	1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	58	59	61	59
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

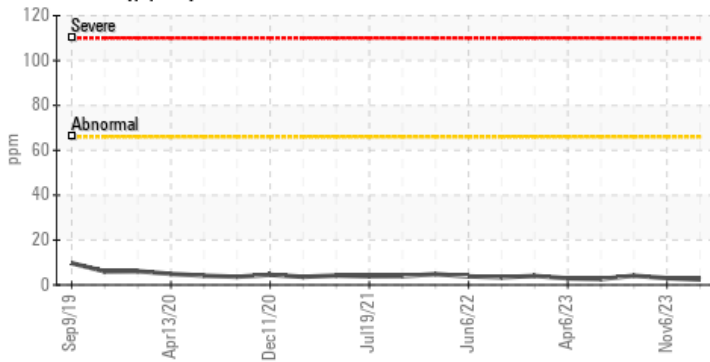
Calcium	ppm	1087	1069	1086	1099
Magnesium	ppm	968	966	1030	969
Zinc	ppm	1207	1206	1242	1231
Phosphorus	ppm	1032	987	1101	1124
Barium	ppm	0	<1	0	0
Boron	ppm	<1	3	1	2

Depot: GRE224WOO
Unique No: 5734731
Signed: Wes Davis
Report Date: 27 Feb 2024

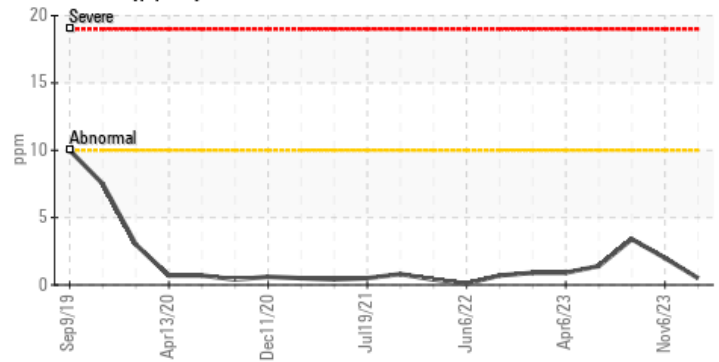


GRAPHS

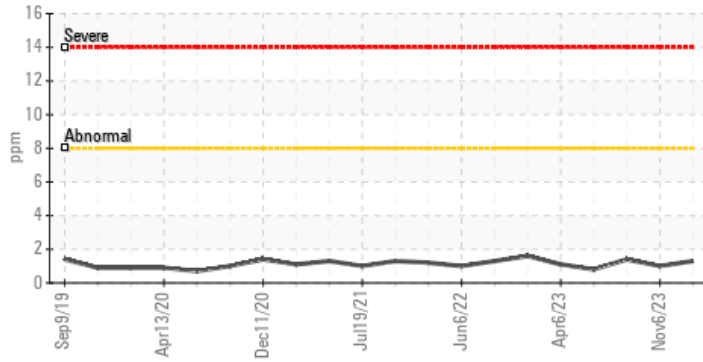
Iron (ppm)



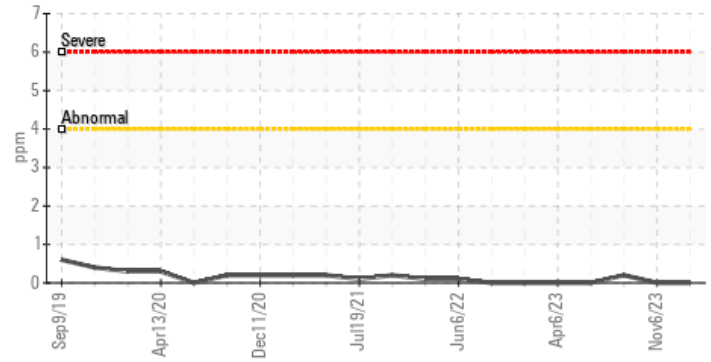
Lead (ppm)



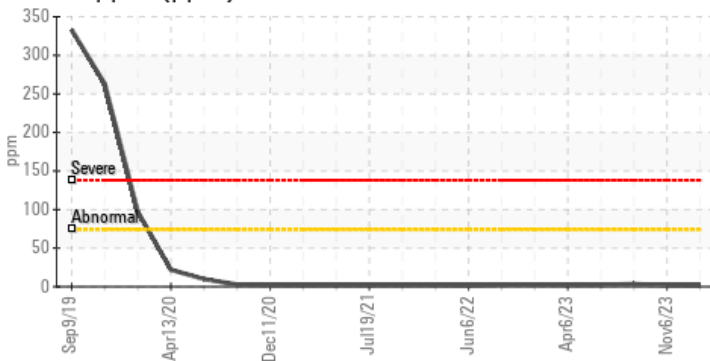
Aluminum (ppm)



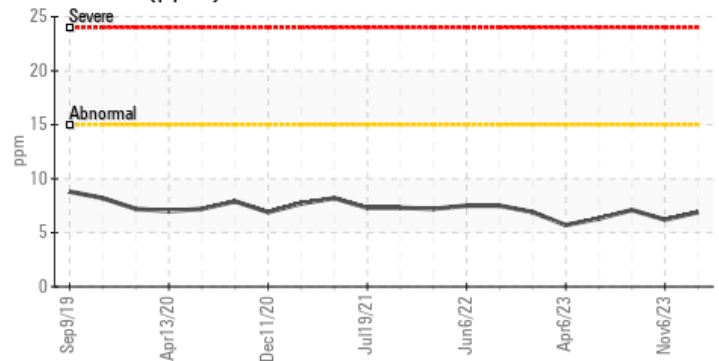
Chromium (ppm)



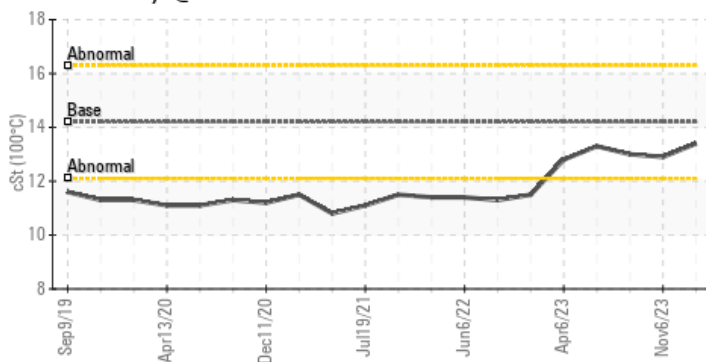
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

