

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 063551 - Diesel Engine

Sample No: LH0260537

Oil Type: PETRO CANADA 15W40



ABC RECYCLING
 750C JACKSON RD
 NANAIMO, BC
 CA V9X 1J2
 Contact: Jordie Richmond
 jordie.richmond@abcrecycling.com
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 F:



SAMPLE INFORMATION

Sample Number	LH0260537	LH0260526	LH0218528	LH0224860
Sample Date	15 Nov 2023	30 Jun 2023	20 Mar 2023	18 Nov 2022
Machine Hours	18492	17789	17189	16666
Oil Hours	703	600	523	491
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	14.3	14.2	13.8	12.0
Oxidation (PA)	%	74	70	61	60



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.5	1.2	0.5	1.2
Nitration (PA)	%	86	79	65	73
Sulfation (PA)	%	67	63	62	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.7
Silicon	ppm	6	6	4	5
Sodium	ppm	2	1	2	3
Potassium	ppm	0	<1	0	0



WEAR METALS

Iron	ppm	20	16	8	23
Copper	ppm	1	1	<1	2
Lead	ppm	2	1	<1	2
Tin	ppm	0	0	0	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	67	65	60	50
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1188	1172	1124	892
Magnesium	ppm	1100	1077	987	806
Zinc	ppm	1306	1279	1207	1066
Phosphorus	ppm	1097	1120	1089	951
Barium	ppm	<1	0	0	0
Boron	ppm	2	2	1	1

Diagnosis

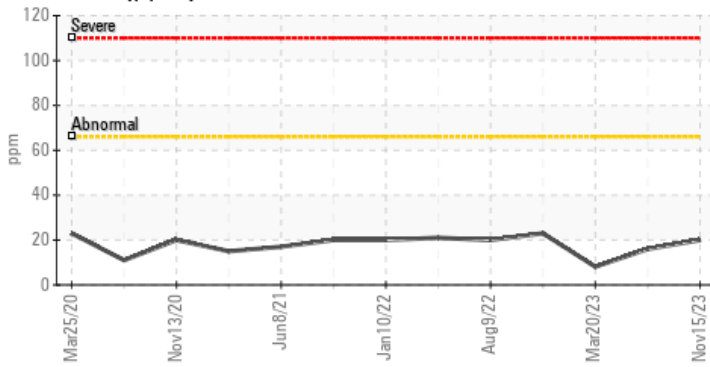
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ABCNAN
 Unique No: 5682541
 Signed: Kevin Marson
 Report Date: 20 Nov 2023

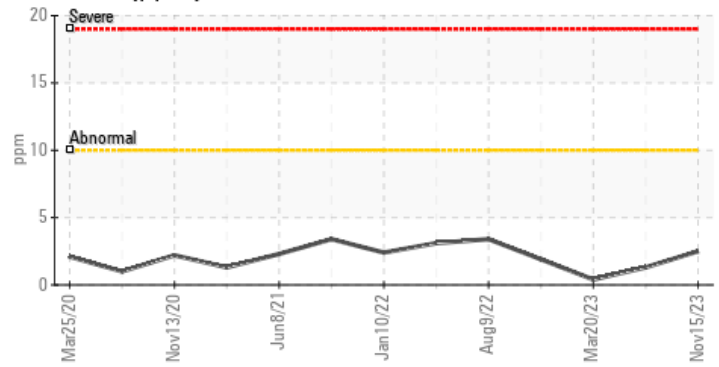


GRAPHS

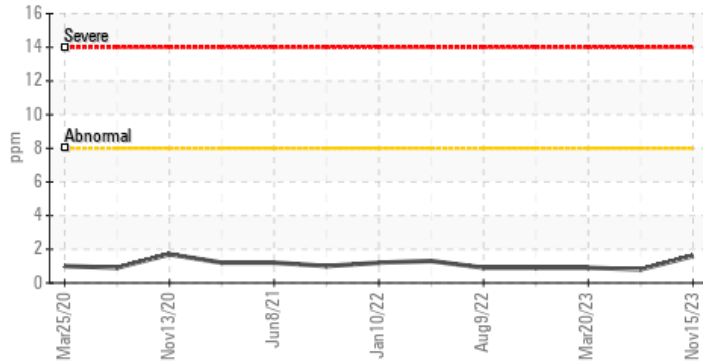
Iron (ppm)



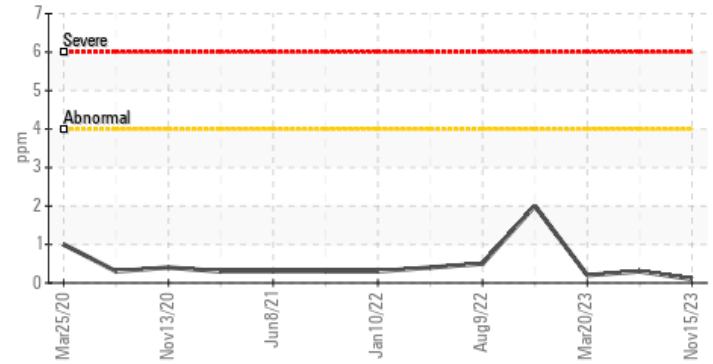
Lead (ppm)



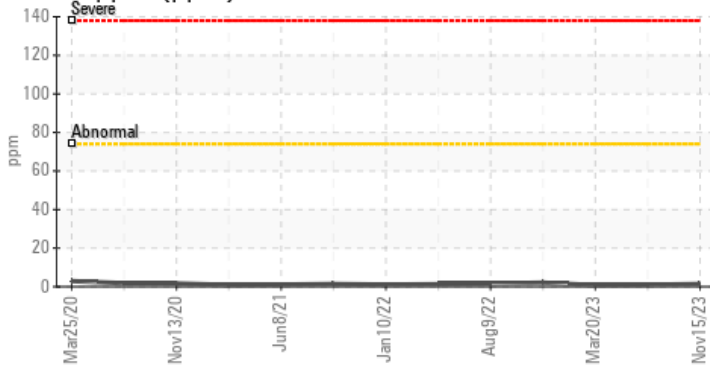
Aluminum (ppm)



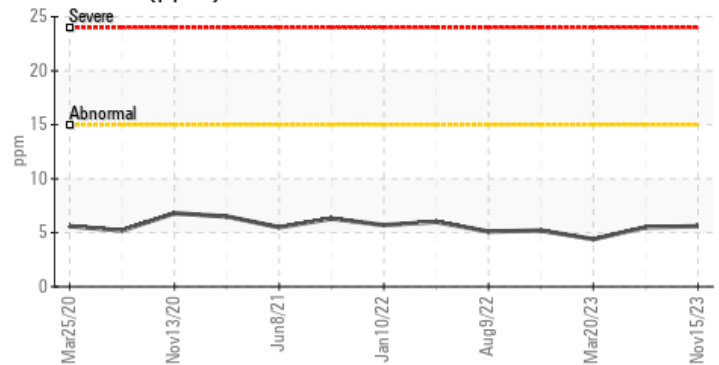
Chromium (ppm)



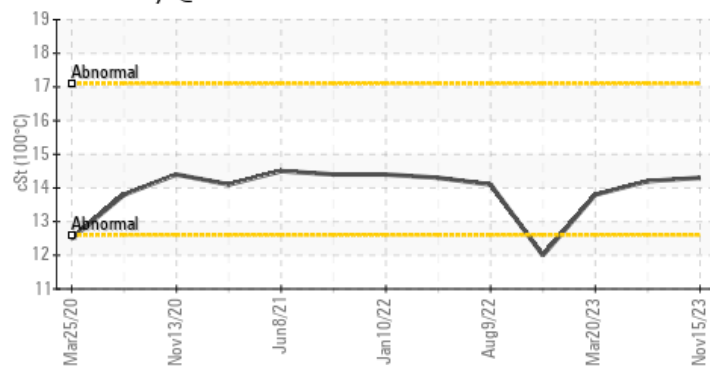
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

