

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 112349-1253 - Diesel Engine

Sample No: LH0274755

Oil Type: PETRO CANADA DURON UHP E6 10W40



SAMPLE INFORMATION

Sample Number	LH0274755	LH0261538	LH	LH0251428
Sample Date	30 Aug 2023	11 Jun 2023	06 Apr 2023	16 Jan 2023
Machine Hours	10003	9416	8940	8336
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MONAGHAN MUSHROOMS LTD
 7345 GUELPH LINE
 CAMPBELLVILLE, ON
 CA L0P 1B0
 Contact: Steven Cargill
 s.cargill@monaghan-mushrooms.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.0	13.3	12.8	11.5
Oxidation (PA)	%	72	64	66	89



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	79	67	71	83
Sulfation (PA)	%	59	52	60	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.6	<1.0
Silicon	ppm	7	6	6	7
Sodium	ppm	2	1	1	4
Potassium	ppm	5	0	0	0

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	3	3	4
Copper	ppm	3	2	2	3
Lead	ppm	3	1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	<1	1	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	61	59	60	57
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1086	1099	1139	905
Magnesium	ppm	1030	969	979	1088
Zinc	ppm	1242	1231	1217	1211
Phosphorus	ppm	1101	1124	1086	1065
Barium	ppm	0	0	0	0
Boron	ppm	1	2	5	21

Depot: MONCAM
 Unique No: 5632701
 Signed: Wes Davis
 Report Date: 31 Aug 2023

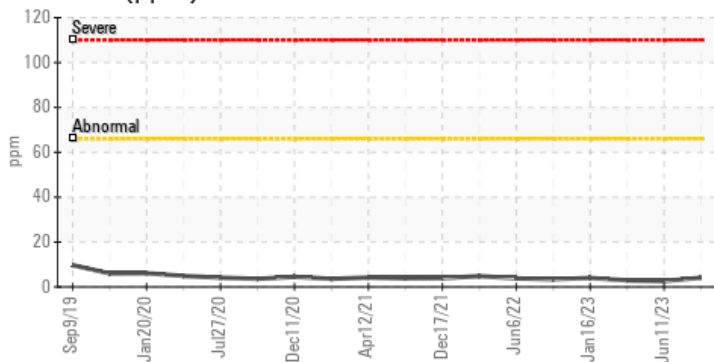
LIEBHERR

CONSTRUCTION EQUIPMENT

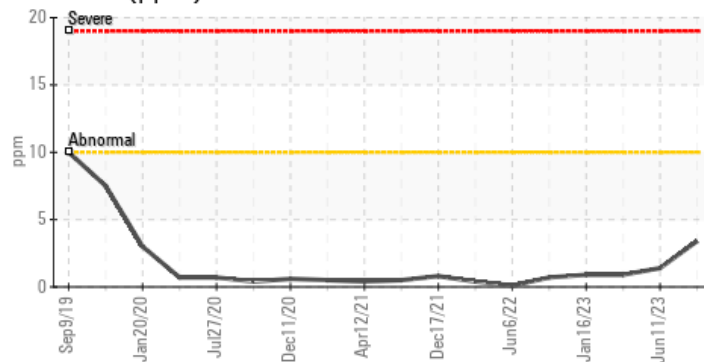


GRAPHS

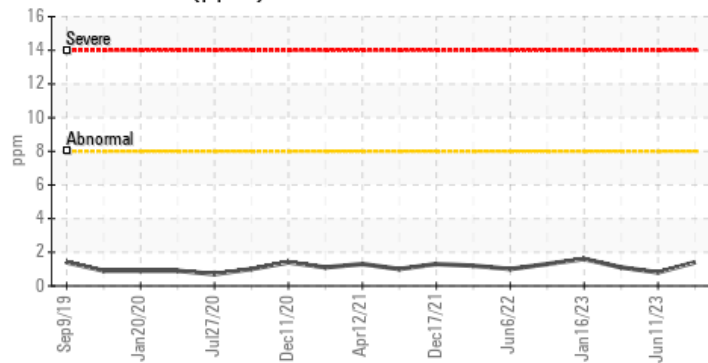
Iron (ppm)



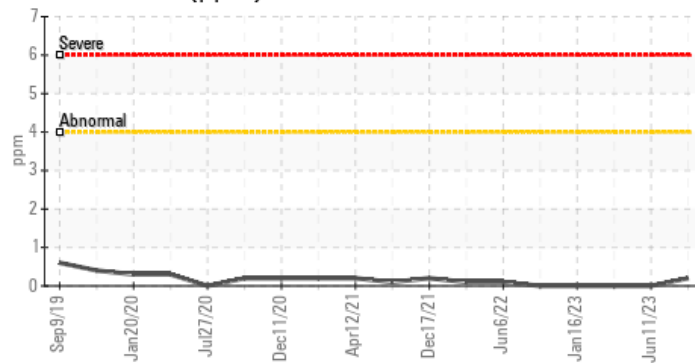
Lead (ppm)



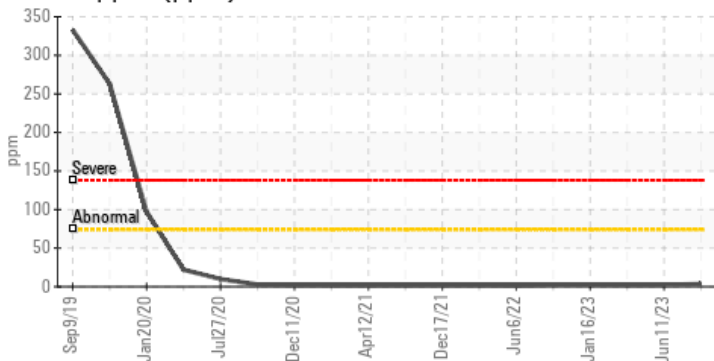
Aluminum (ppm)



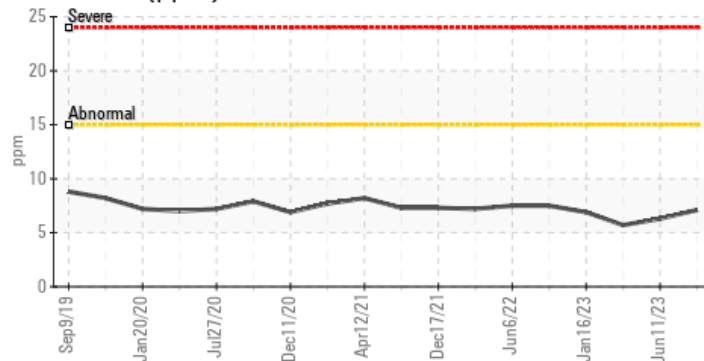
Chromium (ppm)



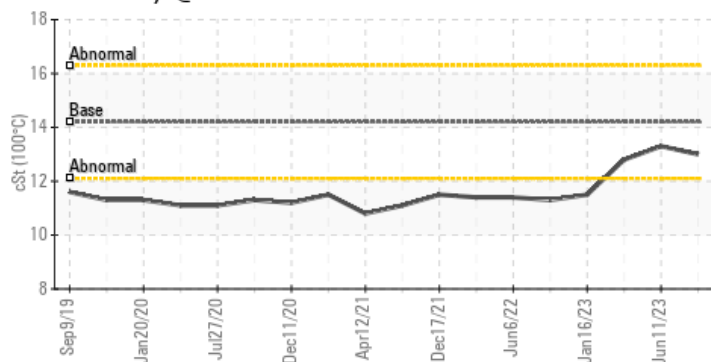
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

