

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C102201- Swing Drive

Sample No: LH0242524

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0242524	LH	LH	LH
Sample Date	26 Oct 2022	18 Aug 2021	13 Feb 2021	16 Jul 2020
Machine Hours	10545	7998	6557	5044
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

BEN-MET STEEL & METAL INC.
 415 ELIZABETH STREET
 GUELPH, ON
 CA N1E 2Y2
 Contact: Andy Sakool
 asakool@benmetsteel.com
 T: (519)763-1209
 F: (519)763-9174



OIL CONDITION

Visc @ 40°C	cSt	102	98.6	101	95.4
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CONTAMINATION

Water	%	0.185	---	---	---
Silicon	ppm	4	2	2	2
Sodium	ppm	1	<1	<1	<1
Potassium	ppm	<1	<1	0	<1



WEAR METALS

PQ		0	---	---	---
Iron	ppm	885	177	168	159
Copper	ppm	92	72	55	47
Lead	ppm	3	2	2	1
Tin	ppm	<1	2	1	1
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	8	2	2	2
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	2	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	6	1	1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	11	10	8	7
Magnesium	ppm	2	2	2	2
Zinc	ppm	16	12	11	11
Phosphorus	ppm	1332	1289	1189	1314
Barium	ppm	0	0	0	0
Boron	ppm	200	311	297	314

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a trace of moisture present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: BENGUE
 Unique No: 5476489
 Signed: Kevin Marson
 Report Date: 31 Oct 2022

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GRAPHS

