

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 083859-1203 - Swing Drive

Sample No: LH0278945

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0278945	LH0251380	LH0234704	LH0222735
Sample Date	21 Jan 2024	18 Jan 2023	21 Sep 2022	06 Jun 2022
Machine Hours	12230	10073	8941	7687
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

RAM IRON AND METAL

60 Ashwarren Road
TORONTO, ON
CA M3J 1Z5
Contact: PETER RACCO
PETER@RAMIRON.COM
T: (416)630-4545
F: (416)630-5258



OIL CONDITION

Visc @ 40°C	cSt	103	98.8	105	105
-------------	-----	-----	------	-----	-----



CONTAMINATION

Water	%	0.895	NEG	NEG	NEG
Silicon	ppm	8	3	3	4
Sodium	ppm	1	2	<1	<1
Potassium	ppm	2	<1	<1	2



WEAR METALS

PQ		0	---	---	---
Iron	ppm	1797	338	422	490
Copper	ppm	321	81	65	56
Lead	ppm	8	2	1	2
Tin	ppm	4	3	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	17	4	6	6
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	15	3	4	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	14	17	13	8
Magnesium	ppm	1	2	1	1
Zinc	ppm	40	24	18	15
Phosphorus	ppm	1128	1184	1254	1214
Barium	ppm	0	0	0	0
Boron	ppm	204	212	243	255

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium, iron and lead ppm levels are abnormal. Bearing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: RAMTOR
Unique No: 5711495
Signed: Kevin Marson
Report Date: 23 Jan 2024

LIEBHERR

CONSTRUCTION EQUIPMENT



GRAPHS

