

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH22M 110435-1250 - Swing Drive

Sample No: LH0288031

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



ECOWASTE INDUSTRIES
 4 SPRUCE ST
 NEW WESTMINSTER, BC
 CA V3L 5G6
 Contact: Service Manager



Sample Information

Sample Number	LH0288031	LH0283996	LH0260473	LH0234095
Sample Date	30 May 2024	31 Jan 2024	14 Aug 2023	07 Mar 2023
Machine Hours	13142	12137	11129	10153
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	ABNORMAL	NORMAL	SEVERE



Oil Condition

Visc @ 40°C	cSt	107	109	109	152
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Contamination

Water	%	0.645	NEG	NEG	NEG
Silicon	ppm	5	5	7	31
Sodium	ppm	<1	<1	1	3
Potassium	ppm	0	1	<1	1



Wear Metals

PQ		0	0	0	3
Iron	ppm	1157	444	691	838
Copper	ppm	72	32	67	140
Lead	ppm	2	<1	2	4
Tin	ppm	4	2	3	11
Aluminum	ppm	<1	<1	1	4
Chromium	ppm	8	4	6	8
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	7	2	5	7
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	8	8	17	16
Magnesium	ppm	2	1	1	<1
Zinc	ppm	23	17	20	26
Phosphorus	ppm	1297	1330	1446	1867
Barium	ppm	<1	0	<1	<1
Boron	ppm	101	115	145	104

T:
F:

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. Iron ppm levels are severe. 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: EONEW
 Unique No: 5799044
 Signed: Kevin Marson
 Report Date: 13 Jun 2024

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Graphs

