

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH22M 110435-1250 - Swing Drive

Sample No: LH0283996

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0283996	LH0260473	LH0234095	LH0238723
Sample Date	31 Jan 2024	14 Aug 2023	07 Mar 2023	20 Jan 2023
Machine Hours	12137	11129	10153	9792
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	SEVERE	SEVERE

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



OIL CONDITION

Visc @ 40°C	cSt	109	109	152	208
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	7	31	40
Sodium	ppm	<1	1	3	3
Potassium	ppm	1	<1	1	1

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. All component wear rates are normal. There is a moderate concentration of water present in the oil. Free water present. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

PQ		0	0	3	8
Iron	ppm	444	691	838	786
Copper	ppm	32	67	140	158
Lead	ppm	<1	2	4	5
Tin	ppm	2	3	11	13
Aluminum	ppm	<1	1	4	5
Chromium	ppm	4	6	8	7
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	2	5	7	6
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	8	17	16	8
Magnesium	ppm	1	1	<1	<1
Zinc	ppm	17	20	26	30
Phosphorus	ppm	1330	1446	1867	2213
Barium	ppm	0	<1	<1	3
Boron	ppm	115	145	104	8

Depot: ECONEW
 Unique No: 5722900
 Signed: Bill Quesnel
 Report Date: 06 Feb 2024



GRAPHS

