

LIEBHERR

CONSTRUCTION EQUIPMENT



120280-1216 - Swing Drive

Sample No: LH0276851

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0276851	LH0186037	LH0186286	LH0186202
Sample Date	03 Nov 2023	05 May 2022	07 Jun 2021	25 Jan 2021
Machine Hours	8000	5066	3041	2163
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

American Iron and Metal

1273 Kelly Lake Rd.

Sudbury, ON

CA P3E 5P5

Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	57.6	92.5	108	176

T:

F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	8	0	1	1
Sodium	ppm	4	0	2	3
Potassium	ppm	1	0	<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. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Aluminum ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated. There is a moderate concentration of water present in the oil. Free water present. Viscosity of sample indicates oil is within SAE 20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	28	17	46	76
Copper	ppm	14	6	38	24
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	9	<1	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	44	0	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	3	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	826	6	10	6
Magnesium	ppm	707	0	3	3
Zinc	ppm	991	6	11	10
Phosphorus	ppm	1041	1613	1427	2343
Barium	ppm	0	0	2	1
Boron	ppm	43	223	258	35

Depot: AIMSUD

Unique No: 5698133

Signed: Kevin Marson

Report Date: 22 Dec 2023



GRAPHS

