

LIEBHERR

CONSTRUCTION EQUIPMENT



035301-1375 - Left Final Drive

Sample No: LH0274432

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0274432	LH0247331	LH	LH
Sample Date	15 Aug 2023	15 Jan 2023	19 Jan 2022	31 Mar 2021
Machine Hours	13957	13004	11963	10762
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	NORMAL	NORMAL

American Iron and Metal
 10 760A HENRI BOURASSA EST
 MONTREAL, QC
 CA H1C 1S9
 Contact: M. Couturier
 mcouturier@delsan-aim.com
 T: (514)703-7024
 F:



OIL CONDITION

Visc @ 40°C	cSt	102	94.3	96.2	98.0
-------------	-----	-----	------	------	------



CONTAMINATION

Silicon	ppm	755	231	299	132
Sodium	ppm	23	8	10	5
Potassium	ppm	42	13	17	8



WEAR METALS

PQ		382	51	116	31
Iron	ppm	2417	1498	1250	1061
Copper	ppm	55	37	32	31
Lead	ppm	4	1	2	1
Tin	ppm	1	1	1	1
Aluminum	ppm	176	50	60	33
Chromium	ppm	37	23	18	11
Molybdenum	ppm	3	2	2	1
Nickel	ppm	5	3	3	2
Titanium	ppm	12	3	4	2
Silver	ppm	0	0	<1	<1
Manganese	ppm	27	13	11	9
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1416	395	468	154
Magnesium	ppm	209	66	80	40
Zinc	ppm	38	26	23	20
Phosphorus	ppm	1206	1298	1309	1232
Barium	ppm	2	0	0	0
Boron	ppm	217	258	241	190

Diagnosis

We advise that you check all areas where dirt can enter the system. 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. Chromium and iron and titanium ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: AIMMON
 Unique No: 5629263
 Signed: Kevin Marson
 Report Date: 17 Aug 2023

LIEBHERR

CONSTRUCTION EQUIPMENT



GRAPHS

