

LIEBHERR

CONSTRUCTION EQUIPMENT



035301-1375 - Right Final Drive

Sample No: LH0274431

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0274431	LH0247330	LH	LH
Sample Date	15 Aug 2023	15 Jan 2023	19 Jan 2022	31 Mar 2021
Machine Hours	13957	13824	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	98.5	95.3	98.1
-------------	-----	-----	------	------	------



CONTAMINATION

Silicon	ppm	582	642	316	190
Sodium	ppm	20	24	12	8
Potassium	ppm	32	36	17	11



WEAR METALS

PQ		279	292	146	79
Iron	ppm	2544	3184	1547	1203
Copper	ppm	50	96	58	45
Lead	ppm	7	3	2	2
Tin	ppm	2	5	4	3
Aluminum	ppm	146	138	64	48
Chromium	ppm	44	41	23	16
Molybdenum	ppm	4	3	2	1
Nickel	ppm	5	6	3	3
Titanium	ppm	11	10	5	4
Silver	ppm	0	0	<1	<1
Manganese	ppm	44	25	14	10
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	978	914	392	237
Magnesium	ppm	184	168	86	53
Zinc	ppm	40	41	35	24
Phosphorus	ppm	1249	1279	1296	1229
Barium	ppm	2	0	0	0
Boron	ppm	231	288	249	247

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: 5629262
Signed: Kevin Marson
Report Date: 17 Aug 2023

LIEBHERR

CONSTRUCTION EQUIPMENT



GRAPHS

