

LIEBHERR

CONSTRUCTION EQUIPMENT



045705-1491 - Left Final Drive

Sample No: LH0265682

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0265682	LH0186922	LH0215203	LH0186259
Sample Date	01 May 2023	02 Dec 2022	07 Dec 2021	11 Mar 2021
Machine Hours	4919	3974	2976	2015
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

American Iron and Metal
1273 Kelly Lake Rd.
Sudbury, ON
CA P3E 5P5
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	73.6	113	107	101
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T:
F:



CONTAMINATION

Silicon	ppm	10	31	242	435
Sodium	ppm	9	69	9	37
Potassium	ppm	1	3	16	33

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 80 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

PQ		---	---	270	185
Iron	ppm	52	193	1242	1167
Copper	ppm	1	1	2	17
Lead	ppm	0	<1	<1	8
Tin	ppm	0	0	0	0
Aluminum	ppm	2	6	31	127
Chromium	ppm	<1	3	15	12
Molybdenum	ppm	<1	<1	1	1
Nickel	ppm	<1	3	2	22
Titanium	ppm	<1	<1	2	7
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	1	9	11
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	16	18	20	72
Magnesium	ppm	3	4	6	43
Zinc	ppm	21	24	14	43
Phosphorus	ppm	1283	1294	1285	1505
Barium	ppm	102	1758	0	4
Boron	ppm	282	270	204	190

Depot: AIMSUD
Unique No: 5618856
Signed: Wes Davis
Report Date: 02 Aug 2023



GRAPHS

