

LIEBHERR

CONSTRUCTION EQUIPMENT



046221-1465 - Swing Drive

Sample No: LH

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH	LH	LH0140702	LH0101941
Sample Date	24 Jul 2023	08 Apr 2021	28 Mar 2019	25 Jan 2019
Machine Hours	3000	1785	1014	598
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

Delsan - American Iron and Metal
 2187 Montee Masson
 Laval, QC
 CA H7B 0A6
 Contact: MANNY MARQUES
 mmarques@delsan-aim.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	102	109	182	213
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CONTAMINATION

Water	%	---	---	0.096	---
Silicon	ppm	2	2	6	4
Sodium	ppm	2	1	4	4
Potassium	ppm	<1	<1	1	<1



WEAR METALS

Iron	ppm	384	79	373	313
Copper	ppm	54	29	99	71
Lead	ppm	2	1	3	2
Tin	ppm	<1	<1	4	3
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	<1	2	1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	2	<1	3	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	12	15	30	29
Magnesium	ppm	1	2	2	1
Zinc	ppm	15	15	21	18
Phosphorus	ppm	1450	1311	2118	2340
Barium	ppm	0	<1	0	0
Boron	ppm	159	296	43	3

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.

Depot: DEL782MON
Unique No: 5617518
Signed: Kevin Marson
Report Date: 27 Jul 2023



GRAPHS

