

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS8100 184947 - Left Final Drive

Sample No: LH0296502

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



Sample Information

Sample Number	LH0296502	LH	LH0125890	LH0120474
Sample Date	01 Jul 2024	09 Jul 2021	17 Apr 2018	08 Dec 2017
Machine Hours	0	8863	1076	499
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



Oil Condition

Visc @ 40°C	cSt	90.8	91.4	105	191
-------------	-----	------	------	-----	-----

T: (519)631-4095

F: (519)631-2745



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	76	3	17	1
Sodium	ppm	5	<1	2	4
Potassium	ppm	9	<1	2	<1

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. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.



Wear Metals

Iron	ppm	117	11	22	22
Copper	ppm	14	2	12	9
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	22	<1	4	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	2	<1	<1	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	2	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	130	13	55	26
Magnesium	ppm	12	3	3	<1
Zinc	ppm	13	8	12	13
Phosphorus	ppm	701	1572	1287	1186
Barium	ppm	<1	0	<1	1
Boron	ppm	12	214	271	1

Depot: HIGSTT

Unique No: 5802483

Signed: Kevin Marson

Report Date: 02 Jul 2024



Graphs

