

LIEBHERR

CONSTRUCTION EQUIPMENT



[[593756]] LIEBHERR HS8100 184996 - Left Track Drive

Sample No: LH0284980

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0284980	LH0261249	LH0239658	LH
Sample Date	26 Jan 2024	04 May 2023	29 Jul 2022	23 Jul 2021
Machine Hours	12043	10190	8773	5818
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	N/A
Sample Status	SEVERE	SEVERE	SEVERE	NORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



OIL CONDITION

Visc @ 40°C	cSt	92.1	98.3	101	90.0

T: (519)631-4095

F: (519)631-2745



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	607	380	347	51
Sodium	ppm	37	22	25	4
Potassium	ppm	53	35	33	6

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Nickel ppm levels are abnormal. Aluminum and iron ppm levels are noted. 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.



WEAR METALS

Iron	ppm	808	372	460	250
Copper	ppm	47	48	70	36
Lead	ppm	1	1	2	1
Tin	ppm	2	3	5	2
Aluminum	ppm	143	93	90	14
Chromium	ppm	8	4	5	2
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	11	3	2	1
Titanium	ppm	7	6	6	1
Silver	ppm	0	0	0	0
Manganese	ppm	10	5	6	6
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	812	534	588	90
Magnesium	ppm	98	60	53	31
Zinc	ppm	22	18	25	25
Phosphorus	ppm	1220	1298	1159	1483
Barium	ppm	<1	<1	1	<1
Boron	ppm	246	215	147	27

Depot: HIGSTT

Unique No: 5737100

Signed: Kevin Marson

Report Date: 06 Mar 2024



GRAPHS

