

LIEBHERR

CONSTRUCTION EQUIPMENT



[[593756]] LIEBHERR HS8100 184996 - 2 Winch

Sample No: LH0284987

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0284987	LH0261252	LH0239655	LH0133882
Sample Date	26 Jan 2024	04 May 2023	29 Jul 2022	20 Nov 2020
Machine Hours	12043	10190	8773	0
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	SEVERE	SEVERE	NORMAL	NORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



OIL CONDITION

Visc @ 40°C	cSt	93.3	95.0	104	95.2
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T: (519)631-4095

F: (519)631-2745



CONTAMINATION

Water	%	NEG	NEG	NEG	0.081
Silicon	ppm	7	10	<1	3
Sodium	ppm	<1	1	1	<1
Potassium	ppm	<1	1	<1	<1

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Copper and tin ppm levels are severe. Iron ppm levels are abnormal. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

PQ		63	8	---	16
Iron	ppm	625	1443	6	230
Copper	ppm	217	96	2	6
Lead	ppm	6	3	<1	<1
Tin	ppm	18	6	0	0
Aluminum	ppm	2	2	<1	<1
Chromium	ppm	5	19	0	2
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	2	7	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	5	11	0	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	19	14	8	45
Magnesium	ppm	3	2	1	3
Zinc	ppm	81	211	25	58
Phosphorus	ppm	1110	1302	1198	1399
Barium	ppm	0	0	0	0
Boron	ppm	152	194	302	102

Depot: HIGSTT

Unique No: 5737104

Signed: Kevin Marson

Report Date: 06 Mar 2024



GRAPHS

