

LIEBHERR

CONSTRUCTION EQUIPMENT



[[593756]] LIEBHERR HS8100 184996 - 1 Winch

Sample No: LH0284986

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0284986	LH0261251	LH0239654	LH0133881
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	N/A	N/A
Sample Status	NORMAL	NORMAL	SEVERE	NORMAL

HIGGS & HIGGS
 RR # 4
 ST THOMAS, ON
 CA N5P 3S8
 Contact: Bernie Higgs



OIL CONDITION

Visc @ 40°C	cSt	87.2	85.3	96.0	93.9
-------------	-----	------	------	------	------

T: (519)631-4095
 F: (519)631-2745



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	4	11	2
Sodium	ppm	<1	<1	2	<1
Potassium	ppm	<1	<1	2	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

PQ		---	---	21	---
Iron	ppm	29	34	1374	16
Copper	ppm	6	21	95	2
Lead	ppm	0	<1	4	<1
Tin	ppm	0	<1	6	0
Aluminum	ppm	<1	<1	2	<1
Chromium	ppm	<1	<1	18	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	<1	6	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	<1	11	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	61	53	18	60
Magnesium	ppm	9	3	3	1
Zinc	ppm	78	81	83	13
Phosphorus	ppm	1107	1187	1214	1436
Barium	ppm	0	0	0	0
Boron	ppm	251	220	205	195

Depot: HIGSTT
 Unique No: 5737105
 Signed: Wes Davis
 Report Date: 05 Mar 2024



GRAPHS

