

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS895HD 188227 - 2 Winch

Sample No: LH0286566

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0286566	LH0274763	LH0261277	LH0247392
Sample Date	01 Mar 2024	13 Oct 2023	04 May 2023	28 Nov 2022
Machine Hours	26121	25204	24070	23243
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



OIL CONDITION

Visc @ 40°C	cSt	81.7	87.3	93.4	93.9
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T: (519)631-4095

F: (519)631-2745



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	5	3	4
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	<1	0	2

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

PQ		275	141	---	---
Iron	ppm	182	208	66	101
Copper	ppm	2	5	3	5
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	3	3	<1	1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	2	2	<1	<1
Titanium	ppm	0	0	<1	1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	5	13	11	13
Magnesium	ppm	1	3	3	4
Zinc	ppm	6	18	20	25
Phosphorus	ppm	770	1114	1168	954
Barium	ppm	<1	2	<1	<1
Boron	ppm	33	257	226	134

Depot: HIGSTT

Unique No: 5737096

Signed: Kevin Marson

Report Date: 06 Mar 2024



GRAPHS

