

LIEBHERR

CONSTRUCTION EQUIPMENT



[[600286]] LIEBHERR HS895HD 188227 -1 Swing Drive

Sample No: LH0286565

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0286565	LH0261274	LH0077141	LH0054351
Sample Date	01 Mar 2024	04 May 2023	20 Nov 2013	13 Jun 2011
Machine Hours	26121	24070	4741	1658
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



OIL CONDITION

Visc @ 40°C	cSt	67.7	101	113	201
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T: (519)631-4095

F: (519)631-2745



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	1	7	10
Sodium	ppm	<1	<1	3	2
Potassium	ppm	<1	0	<1	<1

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

Iron	ppm	24	10	38	132
Copper	ppm	8	26	<1	1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	5	0	0
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	0	0	<1	2
Molybdenum	ppm	4	0	<1	1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	113	6	4	31
Magnesium	ppm	59	<1	<1	<1
Zinc	ppm	191	12	4	0
Phosphorus	ppm	715	1357	1437	1080
Barium	ppm	1	0	<1	41
Boron	ppm	30	300	249	<1

Depot: HIGSTT

Unique No: 5737095

Signed: Wes Davis

Report Date: 05 Mar 2024



GRAPHS

