

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS895 188244 - 2 Swing Drive

Sample No: LH0289537

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



Sample Information

Sample Number	LH0289537	LH0276120	LH0266043	LH0067794
Sample Date	10 May 2024	05 Sep 2023	06 Jun 2023	07 Dec 2012
Machine Hours	21278	19868	15269	526
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



Oil Condition

Visc @ 40°C	cSt	87.4	93.3	92.1	196
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T: (519)631-4095

F: (519)631-2745



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	0	3	1	11
Sodium	ppm	<1	2	<1	1
Potassium	ppm	<1	2	<1	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

Iron	ppm	25	51	46	329
Copper	ppm	152	3	196	<1
Lead	ppm	4	1	5	0
Tin	ppm	3	0	15	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	0	5
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	5	32	14	43
Magnesium	ppm	<1	2	2	1
Zinc	ppm	6	20	30	22
Phosphorus	ppm	750	1332	1225	1118
Barium	ppm	0	2	0	<1
Boron	ppm	28	287	275	2

Depot: HIGSTT

Unique No: 5801760

Signed: Wes Davis

Report Date: 26 Jun 2024



Graphs

