

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR HS895HD 188227 - Boom Winch

Sample No: LH0286568

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



#### SAMPLE INFORMATION

Sample Number	LH0286568	LH0274765	LH0261279	LH0247391
Sample Date	01 Mar 2024	13 Oct 2023	04 May 2023	29 Nov 2022
Machine Hours	26121	25204	24070	23243
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ABNORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



#### OIL CONDITION

Visc @ 40°C	cSt	98.0	103	102	100
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T: (519)631-4095

F: (519)631-2745



#### CONTAMINATION

Water	%	0.306	0.310	NEG	0.258
Silicon	ppm	2	3	2	4
Sodium	ppm	1	2	1	3
Potassium	ppm	2	<1	<1	1

#### Diagnosis

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. 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. All component wear rates are normal. There is a moderate concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



#### WEAR METALS

Iron	ppm	39	42	34	98
Copper	ppm	5	4	3	4
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	0	0	<1	1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	10	9	7	6
Magnesium	ppm	3	3	3	3
Zinc	ppm	40	53	47	80
Phosphorus	ppm	995	1178	1333	1277
Barium	ppm	<1	<1	0	0
Boron	ppm	117	198	257	169

Depot: HIGSTT

Unique No: 5737097

Signed: Kevin Marson

Report Date: 07 Mar 2024



### GRAPHS

