

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS895HD 188297 - Rear Winch

Sample No: LH0180389

Oil Type: PETRO CANADA TRAXON SYNTHETIC 75W90



Harbor Development Inc
 300 Union Street, Po Box 57777
 Saint John, NB
 CA E2L 5B6
 Contact: Service Manager



Sample Information

Sample Number	LH0180389	LH0168277	---	---
Sample Date	22 Sep 2020	26 Feb 2020	---	---
Machine Hours	3682	2035	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---



Oil Condition

Visc @ 40°C	cSt	● 96.1	● 96.0	---	---
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T:
F:



Contamination

Water	%	NEG	● 0.250	---	---
Silicon	ppm	● 2	● 2	---	---
Sodium	ppm	● 0	● 0	---	---
Potassium	ppm	● <1	● <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

Iron	ppm	● 10	● 14	---	---
Copper	ppm	● <1	● 1	---	---
Lead	ppm	● <1	● 0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	● 0	● 0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	● 0	● <1	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	● 7	● 12	---	---
Magnesium	ppm	● 1	● 2	---	---
Zinc	ppm	● 6	● 56	---	---
Phosphorus	ppm	● 1250	● 1334	---	---
Barium	ppm	● 1	● <1	---	---
Boron	ppm	● 317	● 301	---	---

Depot: HAR300SAI
Unique No: 5108903
Signed: Wes Davis
Report Date: 23 Sep 2020



Graphs

