

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS895HD 188297 - 2 Winch

Sample No: LH0277008

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	LH0277008	LH0168276	LH0151245	LH0137569
Sample Date	01 Nov 2023	26 Feb 2020	20 Sep 2019	16 Aug 2019
Machine Hours	15287	2035	974	472
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION



Oil Condition

Visc @ 40°C	cSt	97.4	96.7	122	150
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T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	2	4	2
Sodium	ppm	1	<1	4	<1
Potassium	ppm	0	<1	<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	14	19	37	3
Copper	ppm	2	1	3	<1
Lead	ppm	<1	0	<1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	8	14	51	60
Magnesium	ppm	1	1	3	2
Zinc	ppm	17	10	29	275
Phosphorus	ppm	1236	1318	1197	957
Barium	ppm	2	2	4	<1
Boron	ppm	319	309	185	1

Depot: HAR300SAI
Unique No: 5672505
Signed: Wes Davis
Report Date: 09 Nov 2023



Graphs

