

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS895HD 188297 -1 Winch

Sample No: LH0277007

Oil Type: PETRO CANADA TRAXON SYNTHETIC 75W90



Sample Information

Sample Number	LH0277007	LH0168275	LH0151244	LH0137568
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	ABNORMAL

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



Oil Condition

Visc @ 40°C	cSt	96.2	94.5	100	211
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T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	2	1	5
Sodium	ppm	1	0	<1	4
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	15	14	7	66
Copper	ppm	2	<1	<1	3
Lead	ppm	<1	0	0	2
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	10	9	14	87
Magnesium	ppm	2	1	2	2
Zinc	ppm	15	8	21	45
Phosphorus	ppm	1193	1333	1271	1054
Barium	ppm	2	1	<1	4
Boron	ppm	315	322	293	1

Depot: HAR300SAI
Unique No: 5672504
Signed: Wes Davis
Report Date: 09 Nov 2023



Graphs

