LIEBHERR

CONSTRUCTION EQUIPMENT

[[579372]] LIEBHERR HS895HD 188227 - Boom Winch

Sample No: LH0274765

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

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

	IL CC	NDITION				
Visc @ 40°0	С	cSt	103	O 102	100	

CONT	AMINATIO	ON			
Water	%	0.310	NEG	0.258	
Silicon	ppm	3	02	4	
Sodium	ppm	2	1	3	
Potassium	ppm	0 <1	O <1	O 1	

(O)					
₩ WEA	R META	LS			
Iron	ppm	42	3 4	98	
Copper	ppm	4	3	4	
Lead	ppm	 <1	O <1	O <1	
Tin	ppm	0	0	0	
Aluminum	ppm	 <1	O <1	O <1	
Chromium	ppm	() <1	O 0	O <1	
Molybdenum	ppm	0	O <1	O 0	
Nickel	ppm	() <1	O <1	O <1	
Titanium	ppm	0	0	0	
Silver	ppm	<1	0	<1	
Manganese	ppm	0	O <1	1	
Vanadium	ppm	0	0	0	

ADDITIVES							
Calcium	ppm	9	7	6			
Magnesium	ppm	3	3	3			
Zinc	ppm	53	O 47	○ 80			
Phosphorus	ppm	1178	O 1333	O 1277			
Barium	ppm	○ <1	O 0	O 0			
Boron	ppm	198	257	169			



HIGGS & HIGGS RR # 4 ST THOMAS, ON CA N5P 3S8 Contact: Bernie Higgs

T: (519)631-4095 F: (519)631-2745

Diagnosis

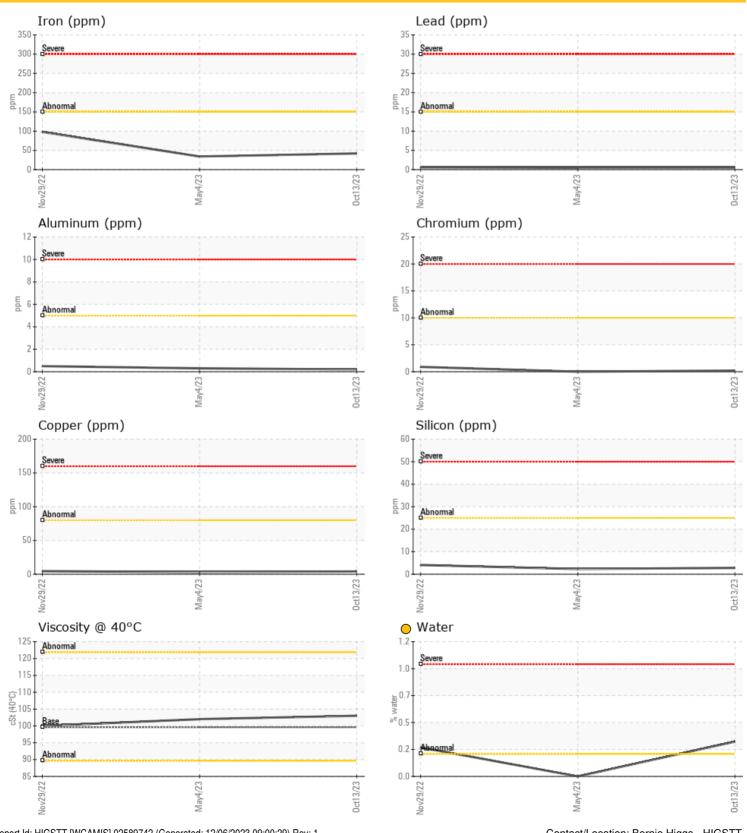
We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot:HIGSTTUnique No:5658808Signed:Kevin MarsonReport Date:19 Oct 2023





GRAPHS



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Contact/Location: Bernie Higgs - HIGSTT