LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 083859-1203 - Front Differential

Sample No: LH0278940

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

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SAMPI	LE INFORA	MATION			
Sample Number		LH0278940	LH0251383	LH0234705	LH0222729
Sample Date		21 Jan 2024	18 Jan 2023	21 Sep 2022	06 Jun 2022
Machine Hours		12230	10073	8941	7687
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
OIL CONDITION					
Visc @ 40°C	cSt	103	95.5	O 105	O 104
CONTAMINATION					

C	CONTAMINATION							
Water	%	NEG	NEG	NEG	NEG			
Silicon	ppm	2	O 2	O 2	3			
Sodium	ppm	○ <1	O <1	O <1	O <1			
Potassium	ppm	() <1	0	O <1	O 1			
Sodium	ppm	0 <1	0 <1	0 <1	0 1			

(O) WE					
WEAR METALS					
Iron	ppm	6	O 1	O 2	O 5
Copper	ppm	12	O 5	1 3	4
Lead	ppm	<1	0	O <1	0
Tin	ppm	0	O 0	O 0	0
Aluminum	ppm	 <1	O <1	<1	O <1
Chromium	ppm	0	O 0	0	0
Molybdenum	ppm	0	0	O	0
Nickel	ppm	○ <1	O <1	O 0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	O 0	0
Vanadium	ppm	0	0	0	0

Vanadium	ppm	0	0	0	0		
ADDITIVES							
Calcium	ppm	8	0 8	1 3	0 8		
Magnesium	ppm	2	O 2	O 2	O 1		
Zinc	ppm	16	O 13	16	9		
Phosphorus	ppm	1240	O 1304	1303	O 1315		
Barium	ppm	0	O 0	0	 <1		
Boron	ppm	310	○ 312	296	○ 318		



RAM IRON AND METAL

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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.

Depot:RAMTORUnique No:5711496Signed:Wes DavisReport Date:22 Jan 2024

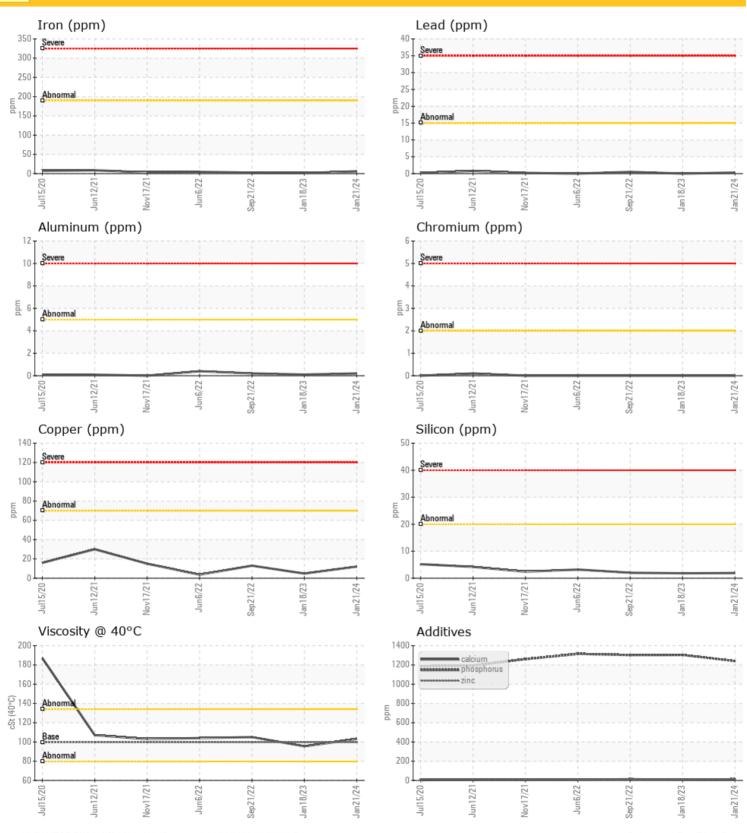
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GRAPHS



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Submitted By: Rick Cule