LIEBHERR



LIEBHERR LH50M 083859-1203 - Front Left Wheel Hub

Sample No: LH0278943

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

SAN	APLE INF	ORMATION			
Sample Number		LH0278943	LH0251385	LH0239355	LH0222726
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		ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL
<u> </u>					
OIL	CONDITI	ON			
Visc @ 40°C	cSt	33.7	48.5	53.5	55.3
**					
CON	IT A MINI	ATION			

CONTAMINATION								
Water	%	NEG	NEG	NEG	NEG			
Silicon	ppm	14	8	O 12	28			
Sodium	ppm	 <1	O 1	O 1	O 2			
Potassium	ppm	1	O <1	O <1	O 2			

WEA	R METAL	S			
Iron	ppm	85	O 195	○ 362	○ 373
Copper	ppm	7	O 25	24	24
Lead	ppm	 <1	O <1	<1	1
Tin	ppm	0	O <1	O 0	0
Aluminum	ppm	2	O 2	O 2	3
Chromium	ppm	1	O 1	O 1	1
Molybdenum	ppm	0	O <1	<1	O <1
Nickel	ppm	○ <1	O <1	O <1	O <1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	 <1	3	3	4
Vanadium	ppm	0	0	0	0

Vanadium	ppm	0	0	0	0	
WI .						
ADDITIVES						
Calcium	ppm	84	○ 85	93	108	
Magnesium	ppm	7	O 4	4	4	
Zinc	ppm	322	268	266	265	
Phosphorus	ppm	277	685	759	763	
Barium	ppm	0	0	O 0	O 0	
Boron	ppm	3	101	99	102	



RAM IRON AND METAL

60 Ashwarren Road TORONTO, ON CA M3J 1Z5

Contact: PETER RACCO
PETER@RAMIRON.COM

T: (416)630-4545 F: (416)630-5258

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill.

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Depot:RAMTORUnique No:5711492Signed:Kevin MarsonReport Date:23 Jan 2024

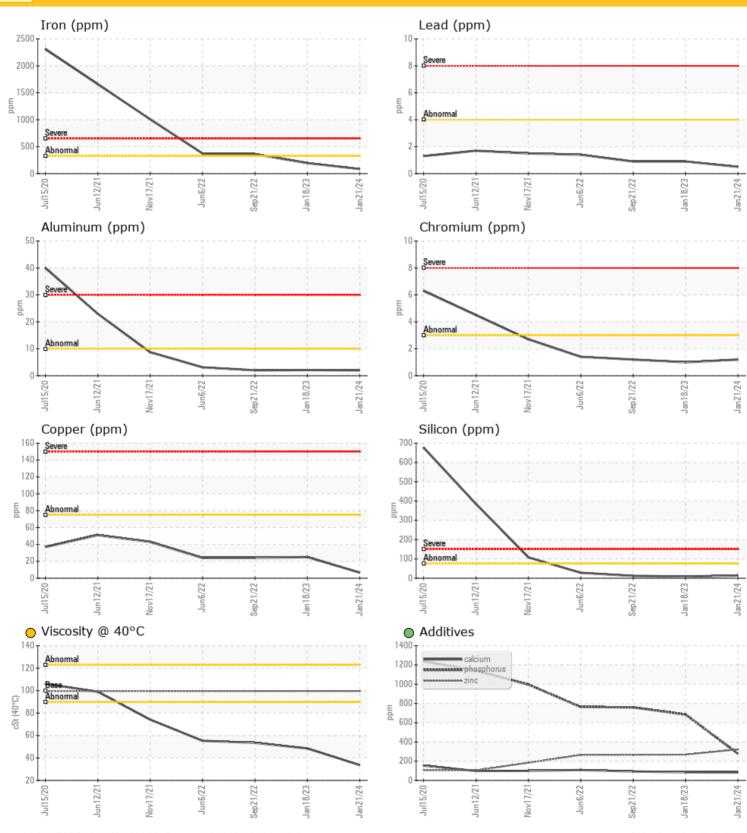
LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS



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Submitted By: Rick Cule