

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 083859-1203 - Front Left Wheel Hub

Sample No: LH0278943

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

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

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



OIL CONDITION

Visc @ 40°C	cSt	33.7	48.5	53.5	55.3
-------------	-----	------	------	------	------



CONTAMINATION

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



WEAR METALS

Iron	ppm	85	195	362	373
Copper	ppm	7	25	24	24
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	2	2	3
Chromium	ppm	1	1	1	1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	<1	<1	<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



ADDITIVES

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

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: RAMTOR
Unique No: 5711492
Signed: Kevin Marson
Report Date: 23 Jan 2024



GRAPHS

