

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 083859-1203 - Splitter Box

Sample No: LH0278936

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0278936	LH0251381	LH0247525	LH0234707
Sample Date	21 Jan 2024	18 Jan 2023	10 Nov 2022	21 Sep 2022
Machine Hours	12230	10073	9475	8941
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

RAM IRON AND METAL

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OIL CONDITION

Visc @ 40°C	cSt	33.3	80.7	80.6	76.4
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	8	1	2
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	<1	0	<1



WEAR METALS

Iron	ppm	18	37	15	23
Copper	ppm	3	<1	<1	1
Lead	ppm	<1	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	2	<1	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	77	29	26	35
Magnesium	ppm	5	3	3	2
Zinc	ppm	320	72	68	92
Phosphorus	ppm	266	1152	1201	1138
Barium	ppm	0	0	0	0
Boron	ppm	1	262	277	246

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: 5711494
Signed: Kevin Marson
Report Date: 23 Jan 2024



GRAPHS

