

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Splitter Box

Sample No: LH0194732

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0194732	LH0194634	LH0180427	LH0183458
Sample Date	29 Oct 2021	25 Jul 2021	17 Mar 2021	08 Feb 2021
Machine Hours	20093	18995	0	8850
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	N/A
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

J.D. Irving

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OIL CONDITION

Visc @ 40°C	cSt	88.8	94.5	104	87.6
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CONTAMINATION

Element	ppm	3	7	2	2
Silicon	ppm	3	7	2	2
Sodium	ppm	1	1	<1	<1
Potassium	ppm	2	<1	<1	<1



WEAR METALS

Element	ppm	0	118	12	50
PQ		0	---	---	---
Iron	ppm	87	118	12	50
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	1	<1	0	<1
Molybdenum	ppm	<1	7	0	3
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	2	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Element	ppm	24	118	12	50
Calcium	ppm	24	118	12	50
Magnesium	ppm	7	127	1	51
Zinc	ppm	104	176	5	102
Phosphorus	ppm	1288	1240	1177	1205
Barium	ppm	0	<1	0	0
Boron	ppm	274	220	296	293

Diagnosis

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: JDITRU
Unique No: 5305029
Signed: Kevin Marson
Report Date: 03 Nov 2021



GRAPHS

