

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R938 050294-1650 - Splitter Box

Sample No: LH0172357

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0172357	LH0172348	LH0257077	LH0230895
Sample Date	03 Jan 2024	11 Jul 2023	21 Mar 2023	16 Sep 2022
Machine Hours	4951	4478	4098	3452
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	95.6	95.3	95.8	101
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CONTAMINATION

Water	%	0.022	NEG	NEG	NEG
Silicon	ppm	4	12	7	6
Sodium	ppm	4	1	2	2
Potassium	ppm	6	2	2	1



WEAR METALS

Iron	ppm	59	57	70	52
Copper	ppm	<1	1	1	2
Lead	ppm	<1	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	85	30	21	17
Magnesium	ppm	9	2	2	2
Zinc	ppm	84	24	19	18
Phosphorus	ppm	641	1306	1418	1265
Barium	ppm	2	2	8	54
Boron	ppm	33	288	268	219

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. The water content is negligible. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: MOOPAL
 Unique No: 5709374
 Signed: Wes Davis
 Report Date: 15 Jan 2024



GRAPHS

