

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 063551 - Front Left Planetary

Sample No: LH0260525

Oil Type: PETRO CANADA TRAXON 80W90



ABC RECYCLING

750C JACKSON RD
NANAIMO, BC
CA V9X 1J2

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SAMPLE INFORMATION

Sample Number	LH0260525	LH0260533	LH0246947	LH0224856
Sample Date	15 Nov 2023	30 Jun 2023	20 Mar 2023	18 Nov 2022
Machine Hours	18492	17789	17189	16666
Oil Hours	703	600	523	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	128	124	120	132
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 17	● 13	● 13	● 2
Sodium	ppm	● 7	● 6	● 5	● 2
Potassium	ppm	● 7	● 5	● 2	● <1



WEAR METALS

PQ		● 30	---	---	---
Iron	ppm	● 300	● 187	● 95	● 42
Copper	ppm	● 17	● 16	● 12	● 6
Lead	ppm	● 2	● <1	● <1	● <1
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● 3	● 3	● 2	● <1
Chromium	ppm	● 2	● 1	● <1	● 0
Molybdenum	ppm	● 4	● 7	● 9	● 2
Nickel	ppm	● 1	● <1	● <1	● <1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	● 3	● 3	● 2	● <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	76	74	● 67	47
Magnesium	ppm	45	48	57	38
Zinc	ppm	● 107	● 139	182	● 57
Phosphorus	ppm	● 992	● 1038	● 1037	● 1072
Barium	ppm	● 1	● <1	● 0	● 0
Boron	ppm	● 174	● 132	● 103	● 226

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. No other corrective action is recommended at this time. Iron ppm levels are marginal. All other component wear rates are normal. 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: ABCNAN
Unique No: 5682709
Signed: Kevin Marson
Report Date: 21 Nov 2023

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GRAPHS

