



CONSTRUCTION EQUIPMENT

13900 AMERICAN HW VOLVO L110H 631365 - FRONT AXLE



Sample No: VCP411512
Oil Type: VOLVO WB 102
Job No: 13900 AMERICAN HW



SAMPLE INFORMATION

Sample Number	VCP411512	VCP250101	VCP274585	VCP244104
Sample Date	01 Dec 2023	18 Mar 2021	05 Jun 2020	27 Sep 2019
Machine Hours	15261	8011	6006	4116
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@MCCLUNG-LOGAN.COM
 T:
 F: (804)266-1611



OIL CONDITION

Visc @ 40°C	cSt	▲ 97.8	■ 43.0	■ 36.7	■ 39.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 6	■ 5	■ 13	■ 16
Sodium	ppm	■ 3	■ 4	■ 5	■ 8
Potassium	ppm	■ 0	■ 0	■ <1	■ 0



WEAR METALS

Iron	ppm	■ 126	■ 10	■ 41	■ 92
Copper	ppm	■ 0	■ <1	■ 0	■ <1
Lead	ppm	■ 0	■ <1	■ 0	■ <1
Tin	ppm	■ 0	■ <1	■ 0	■ 0
Aluminum	ppm	■ 0	■ <1	■ <1	■ <1
Chromium	ppm	■ 1	■ <1	■ <1	■ 2
Molybdenum	ppm	■ 0	■ <1	■ <1	■ 0
Nickel	ppm	■ 0	■ 0	■ <1	■ <1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	■ 2	■ <1	■ 1	■ 3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	▲ 971	■ 3743	■ 4091	■ 4287
Magnesium	ppm	■ 6	■ 10	■ 13	■ 14
Zinc	ppm	▲ 444	■ 1519	■ 1517	■ 1657
Phosphorus	ppm	▲ 1840	■ 1319	■ 1307	■ 1255
Barium	ppm	■ 0	■ 0	■ 0	■ <1
Boron	ppm	■ 129	■ 118	■ 130	■ 120

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO8882
Unique No: 10779523
Signed: Don Baldrige
Report Date: 12 Dec 2023



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VOLVO GRAPHS

