



CONSTRUCTION EQUIPMENT

VOLVO L120H 632699 - DIESEL ENGINE



Sample No: VCP0007399

Oil Type: DIESEL ENGINE OIL SAE 40

Job No:



SAMPLE INFORMATION

Sample Number	VCP0007399	VCP0002532	VCP360899	VCP348832
Sample Date	02 Oct 2023	15 Nov 2022	02 May 2022	08 Feb 2022
Machine Hours	6097	4046	2522	1837
Oil Hours	4573	1524	500	500
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

ALTA EQUIPMENT COMPANY

8750 PHILIPS HWY
JACKSONVILLE, FL
US 32256

Contact: SHAWN NORTHCRAFT
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OIL CONDITION

Visc @ 100°C	cSt	13.4	14.1	13.9	13.6
Base Number (BN)	mg KOH/g	10.4	11.5	11.4	7.1
Oxidation (PA)	%	82	91	92	51



CONTAMINATION

Soot %	%	0.4	1.2	0.8	0.1
Nitration (PA)	%	67	89	78	67
Sulfation (PA)	%	61	72	68	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	7	13
Sodium	ppm	3	2	1	2
Potassium	ppm	1	0	1	0



WEAR METALS

Iron	ppm	9	23	21	24
Copper	ppm	1	4	3	8
Lead	ppm	<1	2	<1	2
Tin	ppm	1	2	2	2
Aluminum	ppm	9	13	10	4
Chromium	ppm	<1	1	1	1
Molybdenum	ppm	43	54	44	15
Nickel	ppm	0	<1	0	▲ 6
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1890	1752	1759	2236
Magnesium	ppm	610	544	524	217
Zinc	ppm	1284	1197	1187	1038
Phosphorus	ppm	1046	964	1002	928
Barium	ppm	0	0	0	0
Boron	ppm	34	59	28	5

Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO0092
Unique No: 10675097
Signed: Wes Davis
Report Date: 04 Oct 2023



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GRAPHS

