



CONSTRUCTION EQUIPMENT

W-5549-1 VOLVO L120H 632612 - DIESEL ENGINE



Sample No: VCP411778

Oil Type: NOT GIVEN

Job No: W-5549-1



SAMPLE INFORMATION

Sample Number	VCP411778	VCP385179	VCP338142	VCP351097
Sample Date	06 Sep 2023	04 Oct 2022	01 Jun 2022	21 Mar 2022
Machine Hours	4442	3037	2636	2063
Oil Hours	0	500	630	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.7	13.2	13.9
Base Number (BN)	mg KOH/g	10.3	8.0	8.5	8.3
Oxidation (PA)	%	80	50	67	47



CONTAMINATION

Soot %	%	0.5	0.3	0.2	0.1
Nitration (PA)	%	58	73	73	66
Sulfation (PA)	%	63	52	55	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	4	4	2
Sodium	ppm	2	0	1	<1
Potassium	ppm	0	0	1	0



WEAR METALS

Iron	ppm	22	10	9	5
Copper	ppm	<1	2	2	1
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	2	1	0
Aluminum	ppm	12	4	3	2
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	44	20	53	20
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1724	2161	1255	2058
Magnesium	ppm	565	220	649	169
Zinc	ppm	1154	1063	920	979
Phosphorus	ppm	967	874	734	856
Barium	ppm	0	0	0	0
Boron	ppm	55	9	32	19

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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: VOLVO9010
Unique No: 10636138
Signed: Wes Davis
Report Date: 11 Sep 2023

VOLVO GRAPHS

