



CONSTRUCTION EQUIPMENT

VOLVO L120F 66538 - DIESEL ENGINE



Sample No: VCP395413
Oil Type: PETRO CANADA 10W30
Job No:



SAMPLE INFORMATION

Sample Number	VCP395413	VCP373522	VCP327806	VCP302785
Sample Date	03 Nov 2023	28 Aug 2022	03 Mar 2022	12 Aug 2021
Machine Hours	2707	2391	2085	1786
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 @ 100°C	cSt	11.9	12.2	12.0	11.7
Base Number (BN)	mg KOH/g	7.6	8.4	7.4	---
Oxidation (PA)	%	66	73	67	78



CONTAMINATION

Soot %	%	0.3	0.3	0.3	0
Nitration (PA)	%	66	69	63	68
Sulfation (PA)	%	58	63	58	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	1
Sodium	ppm	4	<1	2	3
Potassium	ppm	6	2	9	7



WEAR METALS

Iron	ppm	6	6	7	6
Copper	ppm	2	2	2	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	2	1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	19	7	3	7
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1934	2103	2402	2388
Magnesium	ppm	234	49	28	82
Zinc	ppm	1218	1142	1300	1242
Phosphorus	ppm	1005	957	1064	1020
Barium	ppm	0	0	0	0
Boron	ppm	125	193	178	182

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: WOOSTM
Unique No: 10737059
Signed: Wes Davis
Report Date: 10 Nov 2023

VOLVO **GRAPHS**

