



CONSTRUCTION EQUIPMENT

SPM660281-10 VOLVO L120H 632540 - DIESEL ENGINE



Sample No: VCP442670
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM660281-10



SAMPLE INFORMATION

Sample Number	VCP442670	VCP433507	VCP426724	VCP282776
Sample Date	22 Jan 2024	09 Nov 2023	31 Jul 2023	29 Jun 2020
Machine Hours	14655	13618	12544	4821
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.9	15.2	13.5
Base Number (BN)	mg KOH/g	9.4	8.5	7.9	---
Oxidation (PA)	%	87	94	88	61



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	1.2	0.9	0.4
Nitration (PA)	%	80	98	78	58
Sulfation (PA)	%	63	69	66	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	9	4
Sodium	ppm	3	2	4	2
Potassium	ppm	2	<1	2	0



WEAR METALS

Iron	ppm	17	33	▲ 83	7
Copper	ppm	3	1	5	2
Lead	ppm	2	2	13	<1
Tin	ppm	<1	1	2	0
Aluminum	ppm	9	12	▲ 22	5
Chromium	ppm	<1	1	4	<1
Molybdenum	ppm	49	64	72	246
Nickel	ppm	1	<1	1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1676	1765	1923	1121
Magnesium	ppm	536	615	772	1051
Zinc	ppm	1177	1297	1427	1236
Phosphorus	ppm	1008	1049	1125	1170
Barium	ppm	0	0	0	0
Boron	ppm	24	18	5	<1

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: VOLVO0090
Unique No: 10857574
Signed: Wes Davis
Report Date: 01 Feb 2024



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GRAPHS

