



CONSTRUCTION EQUIPMENT

6523 VOLVO L110H 632189 - DIESEL ENGINE



Sample No: VCP424979
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6523



SAMPLE INFORMATION

Sample Number	VCP424979	VCP364044	VCP333170	---
Sample Date	04 May 2023	24 Oct 2022	19 May 2022	---
Machine Hours	1514	999	510	---
Oil Hours	0	1000	510	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	12.8	---
Base Number (BN)	mg KOH/g	10.9	11.5	10.9	---
Oxidation (PA)	%	86	89	82	---

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.



CONTAMINATION

Soot %	%	0.2	0.2	0.2	---
Nitration (PA)	%	66	65	68	---
Sulfation (PA)	%	64	68	66	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	15	---
Sodium	ppm	3	2	<1	---
Potassium	ppm	1	0	3	---



WEAR METALS

Iron	ppm	13	11	22	---
Copper	ppm	10	10	17	---
Lead	ppm	1	3	4	---
Tin	ppm	1	2	3	---
Aluminum	ppm	4	6	▲ 47	---
Chromium	ppm	1	2	4	---
Molybdenum	ppm	44	41	38	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	<1	1	---
Manganese	ppm	0	<1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1877	1716	1445	---
Magnesium	ppm	539	521	556	---
Zinc	ppm	1255	1087	1027	---
Phosphorus	ppm	1021	909	889	---
Barium	ppm	0	0	0	---
Boron	ppm	51	43	61	---

Depot: ASCMAC
Unique No: 10536789
Signed: Wes Davis
Report Date: 02 Jul 2023



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GRAPHS

