



CONSTRUCTION EQUIPMENT

SWA491137 VOLVO DD120C 288075 - DIESEL ENGINE



Sample No: VCP431234
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA491137



SAMPLE INFORMATION

Sample Number	VCP431234	VCP367752	VCP246991	---
Sample Date	22 Feb 2024	30 Nov 2022	27 Aug 2019	---
Machine Hours	3420	3248	1017	---
Oil Hours	500	0	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	MARGINAL	ABNORMAL	---



ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.4	12.8	---
Base Number (BN)	mg KOH/g	10.6	12.0	---	---
Oxidation (PA)	%	77	90	58	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.3	0.2	---
Nitration (PA)	%	53	75	79	---
Sulfation (PA)	%	59	66	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	2.0	<1.0	---
Silicon	ppm	9	6	11	---
Sodium	ppm	4	2	5	---
Potassium	ppm	3	1	10	---



WEAR METALS

Iron	ppm	18	20	50	---
Copper	ppm	2	2	7	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	30	23	51	---
Chromium	ppm	3	3	5	---
Molybdenum	ppm	52	42	51	---
Nickel	ppm	1	<1	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	<1	2	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1360	1585	1933	---
Magnesium	ppm	440	485	140	---
Zinc	ppm	983	1051	1075	---
Phosphorus	ppm	782	837	920	---
Barium	ppm	34	0	0	---
Boron	ppm	57	29	35	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 acceptable for the time in service.

Depot: VOLVO0142
Unique No: 10898169
Signed: Jonathan Hester
Report Date: 28 Feb 2024



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GRAPHS

