



CONSTRUCTION EQUIPMENT

X48984 VOLVO A25G 752510 - DIESEL ENGINE



Sample No: VCP444510
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: X48984



SAMPLE INFORMATION

Sample Number	VCP444510	VCP378226	VCP391205	---
Sample Date	10 May 2024	07 Feb 2023	22 Nov 2022	---
Machine Hours	2407	913	311	---
Oil Hours	2407	0	0	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	10.1	12.2	10.8	---
Base Number (BN)	mg KOH/g	5.2	7.0	7.3	---
Oxidation (PA)	%	67	87	62	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.6	0.4	0.3	---
Nitration (PA)	%	79	86	85	---
Sulfation (PA)	%	58	63	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.6	---
Silicon	ppm	6	11	41	---
Sodium	ppm	2	3	3	---
Potassium	ppm	3	<1	4	---



WEAR METALS

Iron	ppm	21	19	18	---
Copper	ppm	19	93	285	---
Lead	ppm	1	2	1	---
Tin	ppm	2	2	3	---
Aluminum	ppm	2	<1	3	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	50	51	88	---
Nickel	ppm	2	<1	0	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	1	<1	1	---
Manganese	ppm	1	2	4	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1074	1668	2283	---
Magnesium	ppm	723	377	15	---
Zinc	ppm	1035	1026	1185	---
Phosphorus	ppm	868	804	1009	---
Barium	ppm	0	0	0	---
Boron	ppm	6	14	44	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO6244
Unique No: 11032234
Signed: Jonathan Hester
Report Date: 16 May 2024



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GRAPHS

