



CONSTRUCTION EQUIPMENT

VOLVO A45G 353418 - DIESEL ENGINE



Sample No: VCP438444
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP438444	VCP438448	VCP433540	---
Sample Date	05 Apr 2024	27 Jan 2024	20 Oct 2023	---
Machine Hours	1960	1472	997	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.2	12.0	---
Base Number (BN)	mg KOH/g	10.3	10.2	8.2	---
Oxidation (PA)	%	78	78	75	---

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	52	53	54	---
Sulfation (PA)	%	59	59	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.4	---
Silicon	ppm	4	6	12	---
Sodium	ppm	2	2	4	---
Potassium	ppm	0	2	<1	---



WEAR METALS

Iron	ppm	6	5	15	---
Copper	ppm	2	2	9	---
Lead	ppm	0	1	0	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	<1	2	3	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	39	44	56	---
Nickel	ppm	0	1	2	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1649	1574	1762	---
Magnesium	ppm	494	498	600	---
Zinc	ppm	1098	1105	1314	---
Phosphorus	ppm	944	966	1102	---
Barium	ppm	0	0	<1	---
Boron	ppm	55	54	66	---

Depot: VOLVO0090
Unique No: 10965814
Signed: Sean Felton
Report Date: 10 Apr 2024



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GRAPHS

