



CONSTRUCTION EQUIPMENT

25249 VOLVO A45G 35380 - DIESEL ENGINE



Sample No: VCP455251
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25249



SAMPLE INFORMATION

Sample Number	VCP455251	VCP440959	VCP424622	---
Sample Date	06 Apr 2024	23 Jan 2024	06 Oct 2023	---
Machine Hours	3883	3409	2895	---
Oil Hours	0	600	1000	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.4	12.6	---
Base Number (BN)	mg KOH/g	9.6	8.7	6.6	---
Oxidation (PA)	%	80	80	66	---

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

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.4	0.4	---
Nitration (PA)	%	63	71	70	---
Sulfation (PA)	%	61	61	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	6	11	---
Sodium	ppm	2	2	3	---
Potassium	ppm	0	1	2	---



WEAR METALS

Iron	ppm	6	9	12	---
Copper	ppm	2	2	11	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	1	1	---
Aluminum	ppm	0	3	4	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	44	47	84	---
Nickel	ppm	<1	4	4	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1956	1604	1376	---
Magnesium	ppm	533	500	428	---
Zinc	ppm	1157	1119	1221	---
Phosphorus	ppm	1019	967	991	---
Barium	ppm	0	0	0	---
Boron	ppm	40	56	203	---

Depot: VOLVO3387
Unique No: 10977083
Signed: Wes Davis
Report Date: 15 Apr 2024



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GRAPHS

