



CONSTRUCTION EQUIPMENT

GENERAL ASPHALT - DIESEL ENGINE



Sample No: VCP446474
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: GENERAL ASPHALT



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SAMPLE INFORMATION

Sample Number	VCP446474	VCP444344	VCP440278	---
Sample Date	10 Jul 2024	15 Apr 2024	20 Sep 2023	---
Machine Hours	2589	2034	1167	---
Oil Hours	0	2034	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	13.0	13.3	12.5	---
Base Number (BN)	mg KOH/g	9.9	9.6	9.8	---
Oxidation (PA)	%	79	80	79	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.2	---
Nitration (PA)	%	63	73	60	---
Sulfation (PA)	%	61	60	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	9	12	---
Sodium	ppm	3	2	2	---
Potassium	ppm	0	3	<1	---



WEAR METALS

Iron	ppm	17	28	16	---
Copper	ppm	2	8	10	---
Lead	ppm	0	1	1	---
Tin	ppm	0	2	1	---
Aluminum	ppm	8	▲ 18	12	---
Chromium	ppm	<1	2	1	---
Molybdenum	ppm	55	47	43	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	<1	2	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1748	1740	1744	---
Magnesium	ppm	556	554	523	---
Zinc	ppm	1144	1234	1171	---
Phosphorus	ppm	972	1119	937	---
Barium	ppm	0	2	0	---
Boron	ppm	26	33	43	---

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.

Depot: VOLVO0093
Unique No: 11124281
Signed: Wes Davis
Report Date: 15 Jul 2024



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GRAPHS

