



CONSTRUCTION EQUIPMENT

661511 PRIMORIS VOLVO A40G 352782 - DIESEL ENGINE



Sample No: VCP432334
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 661511 PRIMORIS



SAMPLE INFORMATION

Sample Number	VCP432334	VCP397261	VCP364355	---
Sample Date	29 Jan 2024	17 Jan 2023	15 Aug 2022	---
Machine Hours	4045	2952	2306	---
Oil Hours	0	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.5	13.0	---
Base Number (BN)	mg KOH/g	9.4	8.8	8.0	---
Oxidation (PA)	%	80	82	93	---

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 %	%	0.2	0.3	0.4	---
Nitration (PA)	%	66	78	97	---
Sulfation (PA)	%	61	63	71	---
Glycol	%	NEG	NEG	0.0	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	6	8	---
Sodium	ppm	2	2	2	---
Potassium	ppm	1	0	0	---



WEAR METALS

Iron	ppm	12	11	17	---
Copper	ppm	16	26	52	---
Lead	ppm	<1	1	1	---
Tin	ppm	1	<1	<1	---
Aluminum	ppm	4	2	2	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	40	44	39	---
Nickel	ppm	12	6	4	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	1	<1	1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1443	1621	1635	---
Magnesium	ppm	434	510	445	---
Zinc	ppm	982	1062	970	---
Phosphorus	ppm	853	853	764	---
Barium	ppm	1	0	0	---
Boron	ppm	28	20	11	---

Depot: VOLVO0093
Unique No: 10900907
Signed: Wes Davis
Report Date: 29 Feb 2024



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GRAPHS

