



CONSTRUCTION EQUIPMENT

SW37069 CASTLE VALLE VOLVO L70H 622855 - DIESEL ENGINE



Sample No: VCP446831
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW37069 CASTLE VALLE



SAMPLE INFORMATION

Sample Number	VCP446831	VCP446579	VCP412554	---
Sample Date	12 Jul 2024	12 Apr 2024	02 Feb 2024	---
Machine Hours	6887	6333	5834	---
Oil Hours	500	500	620	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.5	13.6	---
Base Number (BN)	mg KOH/g	6.5	7.4	7.3	---
Oxidation (PA)	%	45	48	59	---

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 %	%	0.3	0.2	0.3	---
Nitration (PA)	%	62	63	70	---
Sulfation (PA)	%	50	48	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	3	5	---
Sodium	ppm	2	<1	0	---
Potassium	ppm	<1	0	1	---



WEAR METALS

Iron	ppm	7	6	11	---
Copper	ppm	<1	<1	1	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	3	2	4	---
Chromium	ppm	<1	<1	2	---
Molybdenum	ppm	17	40	70	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	2136	1725	1570	---
Magnesium	ppm	207	490	598	---
Zinc	ppm	1040	1085	1280	---
Phosphorus	ppm	893	935	1064	---
Barium	ppm	0	0	0	---
Boron	ppm	11	16	33	---

Depot: VOLVO8770
Unique No: 11130115
Signed: Wes Davis
Report Date: 20 Jul 2024



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VOLVO GRAPHS

