



CONSTRUCTION EQUIPMENT

S50601798 IAA BAY PT VOLVO L90H 624600 - DIESEL ENGINE



Sample No: VCP335357
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50601798 IAA BAY PT



SAMPLE INFORMATION

Sample Number	VCP335357	VCP403558	VCP345493	VCP369641
Sample Date	16 Feb 2024	14 Nov 2023	02 Aug 2023	17 Apr 2023
Machine Hours	9504	8982	8466	7953
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.3	13.3	13.6
Base Number (BN)	mg KOH/g	9.6	10.7	9.9	9.4
Oxidation (PA)	%	82	85	81	79



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	60	58	58	58
Sulfation (PA)	%	61	63	61	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	8
Sodium	ppm	2	0	1	2
Potassium	ppm	0	2	2	0



WEAR METALS

Iron	ppm	5	6	6	8
Copper	ppm	3	<1	0	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	1	0	0	<1
Aluminum	ppm	2	2	4	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	43	35	42
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1642	1693	1547	1628
Magnesium	ppm	463	511	481	507
Zinc	ppm	1065	1102	1083	1150
Phosphorus	ppm	885	964	853	921
Barium	ppm	0	9	0	0
Boron	ppm	36	43	33	44

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: VOLVO4487
Unique No: 10890225
Signed: Wes Davis
Report Date: 23 Feb 2024



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GRAPHS

