



CONSTRUCTION EQUIPMENT

S50601357 IAA BAY PT VOLVO L90H 624600 - DIESEL ENGINE



Sample No: VCP403558
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50601357 IAA BAY PT



SAMPLE INFORMATION

Sample Number	VCP403558	VCP345493	VCP369641	VCP340511
Sample Date	14 Nov 2023	02 Aug 2023	17 Apr 2023	09 Jan 2023
Machine Hours	8982	8466	7953	7523
Oil Hours	0	0	0	500
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	13.3	13.3	13.6	14.0
Base Number (BN)	mg KOH/g	10.7	9.9	9.4	9.8
Oxidation (PA)	%	85	81	79	86

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	NEG
Soot %	%	0.2	0.3	0.3	0.5
Nitration (PA)	%	58	58	58	73
Sulfation (PA)	%	63	61	57	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	8	6
Sodium	ppm	0	1	2	3
Potassium	ppm	2	2	0	0



WEAR METALS

Iron	ppm	6	6	8	12
Copper	ppm	<1	0	<1	1
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	4	<1	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	35	42	42
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1693	1547	1628	1699
Magnesium	ppm	511	481	507	524
Zinc	ppm	1102	1083	1150	1199
Phosphorus	ppm	964	853	921	947
Barium	ppm	9	0	0	0
Boron	ppm	43	33	44	25

Depot: VOLVO4487
Unique No: 10752368
Signed: Wes Davis
Report Date: 21 Nov 2023



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GRAPHS

