



CONSTRUCTION EQUIPMENT

S2221 IAA BAY POINT VOLVO L90H 625462 - DIESEL ENGINE



Sample No: VCP446808
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S2221 IAA BAY POINT



SAMPLE INFORMATION

Sample Number	VCP446808	VCP335358	VCP345485	VCP337828
Sample Date	04 Apr 2024	11 Sep 2023	22 May 2023	28 Feb 2023
Machine Hours	5996	5046	4546	4125
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	13.4	12.8	13.2	13.3
Base Number (BN)	mg KOH/g	9.8	9.4	10.4	10.9
Oxidation (PA)	%	87	85	81	82



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.1	0.2	0.3
Nitration (PA)	%	73	66	62	58
Sulfation (PA)	%	61	61	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	4
Sodium	ppm	3	2	1	2
Potassium	ppm	<1	0	1	0



WEAR METALS

Iron	ppm	10	16	7	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	3	0	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	41	44	41
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1860	1778	1731	1782
Magnesium	ppm	540	536	513	529
Zinc	ppm	1218	1132	1186	1164
Phosphorus	ppm	996	878	978	960
Barium	ppm	0	0	0	0
Boron	ppm	26	28	45	46

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: 10966852
Signed: Wes Davis
Report Date: 09 Apr 2024



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VOLVO GRAPHS

