



CONSTRUCTION EQUIPMENT

S50601799 IAA BAY PT VOLVO L90H 625920 - DIESEL ENGINE



Sample No: VCP440840
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50601799 IAA BAY PT



SAMPLE INFORMATION

Sample Number	VCP440840	VCP403991	VCP340927	VCP369637
Sample Date	16 Feb 2024	02 Nov 2023	19 Jul 2023	19 May 2023
Machine Hours	3995	3504	3010	2759
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT

1944 MARINA BLVD
 SAN LEANDRO, CA
 US 94577

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	13.1	13.3
Base Number (BN)	mg KOH/g	9.1	10.3	10.6	10.4
Oxidation (PA)	%	67	81	79	85



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.3
Nitration (PA)	%	49	52	48	60
Sulfation (PA)	%	53	61	60	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	6
Sodium	ppm	2	2	3	1
Potassium	ppm	0	<1	<1	1



WEAR METALS

Iron	ppm	21	23	17	38
Copper	ppm	<1	0	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	2	6
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	38	40	41	45
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1631	1729	1780	1764
Magnesium	ppm	468	556	538	513
Zinc	ppm	1018	1235	1167	1193
Phosphorus	ppm	853	983	972	974
Barium	ppm	0	0	<1	0
Boron	ppm	43	43	56	40

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: 10890226
Signed: Wes Davis
Report Date: 23 Feb 2024



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GRAPHS

