



CONSTRUCTION EQUIPMENT

SW1028267 IAA VOLVO L90H 625734 - DIESEL ENGINE



Sample No: VCP399616
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW1028267 IAA



SAMPLE INFORMATION

Sample Number	VCP399616	VCP397609	VCP376586	VCP313518
Sample Date	29 Dec 2023	05 Jan 2023	29 Aug 2022	12 Mar 2022
Machine Hours	5252	3644	2973	2025
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.1	13.6	13.3	13.0
Base Number (BN)	mg KOH/g	7.1	8.4	11.9	11.7
Oxidation (PA)	%	42	60	86	85

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	0.6	0.4	0.7
Nitration (PA)	%	56	67	62	76
Sulfation (PA)	%	48	55	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	4	4
Sodium	ppm	0	5	5	7
Potassium	ppm	3	<1	1	1



WEAR METALS

Iron	ppm	7	12	8	24
Copper	ppm	1	<1	2	2
Lead	ppm	0	<1	<1	0
Tin	ppm	0	1	<1	1
Aluminum	ppm	2	4	2	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	22	66	46	42
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	2525	1407	1607	1779
Magnesium	ppm	190	668	476	538
Zinc	ppm	1380	1182	1064	1247
Phosphorus	ppm	1121	1024	878	1032
Barium	ppm	3	0	2	0
Boron	ppm	26	125	37	30

Depot: VOLVO5856
Unique No: 10835352
Signed: Wes Davis
Report Date: 19 Jan 2024



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GRAPHS

