



CONSTRUCTION EQUIPMENT

VOLVO L90H 623623 - DIESEL ENGINE



Sample No: VCP376056
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP376056	VCP422033	VCP343813	VCP318437
Sample Date	27 Nov 2023	07 Jun 2023	25 Oct 2021	09 Aug 2021
Machine Hours	13165	12518	9535	9114
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	12.4	12.4	13.5	13.3
Base Number (BN)	mg KOH/g	9.9	10.3	---	---
Oxidation (PA)	%	75	62	77	77



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.5	0.4	0.4
Nitration (PA)	%	63	65	65	62
Sulfation (PA)	%	58	54	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	4	7
Sodium	ppm	4	2	2	3
Potassium	ppm	0	1	1	0



WEAR METALS

Iron	ppm	7	8	7	11
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	6	3	3	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	75	49	37	58
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1907	1507	1724	1727
Magnesium	ppm	628	618	442	531
Zinc	ppm	1350	1000	1111	1106
Phosphorus	ppm	1113	846	872	932
Barium	ppm	0	0	0	0
Boron	ppm	35	41	26	32

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: VOLVO0090
Unique No: 10767397
Signed: Wes Davis
Report Date: 04 Dec 2023



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GRAPHS

