



CONSTRUCTION EQUIPMENT

24743 VOLVO L90H 623820 - DIESEL ENGINE



Sample No: VCP433704
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24743



SAMPLE INFORMATION

Sample Number	VCP433704	VCP391393	VCP383513	VCP304599
Sample Date	04 Jan 2024	22 May 2023	02 Nov 2022	21 Apr 2021
Machine Hours	12737	11566	10494	1826
Oil Hours	0	1000	500	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	13.8	12.9	13.2
Base Number (BN)	mg KOH/g	9.3	9.6	7.2	---
Oxidation (PA)	%	80	85	99	84

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.3	1	1.4	0.3
Nitration (PA)	%	78	72	103	53
Sulfation (PA)	%	63	65	73	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.2	<1.0	<1.0	<1.0
Silicon	ppm	8	5	6	3
Sodium	ppm	2	2	3	2
Potassium	ppm	0	3	0	0



WEAR METALS

Iron	ppm	20	17	34	5
Copper	ppm	2	1	4	<1
Lead	ppm	0	1	<1	0
Tin	ppm	<1	1	<1	0
Aluminum	ppm	17	13	14	4
Chromium	ppm	<1	1	1	<1
Molybdenum	ppm	40	41	47	38
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1845	1784	1766	1724
Magnesium	ppm	509	541	498	502
Zinc	ppm	1193	1210	1109	1074
Phosphorus	ppm	985	922	900	935
Barium	ppm	<1	0	0	0
Boron	ppm	17	24	13	38

Depot: VOLVO3387
Unique No: 10836847
Signed: Doug Bogart
Report Date: 24 Jan 2024



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GRAPHS

