



CONSTRUCTION EQUIPMENT

46391 VOLVO L90H 625080 - DIESEL ENGINE



Sample No: VCP434789
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 46391



SAMPLE INFORMATION

Sample Number	VCP434789	VCP408289	VCP386631	VCP364718
Sample Date	02 Nov 2023	22 Aug 2023	03 Jan 2023	24 Aug 2022
Machine Hours	7922	7528	6631	5900
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	12.9	13.0	13.5	13.2
Base Number (BN)	mg KOH/g	10.9	10.8	10.1	11.4
Oxidation (PA)	%	78	81	80	81



CONTAMINATION

Soot %	%	0.2	0.6	1.2	0.7
Nitration (PA)	%	48	58	68	60
Sulfation (PA)	%	60	61	63	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	14	5	5
Sodium	ppm	<1	3	2	2
Potassium	ppm	<1	1	0	<1



WEAR METALS

Iron	ppm	6	20	15	11
Copper	ppm	0	5	<1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	4	7	6	5
Chromium	ppm	<1	2	<1	<1
Molybdenum	ppm	38	39	43	44
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1607	1759	1655	1593
Magnesium	ppm	526	524	502	478
Zinc	ppm	1175	1162	1117	1108
Phosphorus	ppm	964	931	898	904
Barium	ppm	0	0	0	0
Boron	ppm	56	35	24	35

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: VOLVO8531
Unique No: 10740619
Signed: Wes Davis
Report Date: 15 Nov 2023



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VOLVO GRAPHS

