



CONSTRUCTION EQUIPMENT

VOLVO L45H 4122025 - DIESEL ENGINE



Sample No: VCP437918
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437918	VCP424446	VCP386231	VCP357154
Sample Date	11 Mar 2024	16 May 2023	08 Nov 2022	31 Mar 2022
Machine Hours	2627	2094	1561	1029
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.5	12.5	12.7
Base Number (BN)	mg KOH/g	9.4	9.8	11.0	11.3
Oxidation (PA)	%	89	90	89	89

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 %	%	0.6	0.5	0.1	0.7
Nitration (PA)	%	78	71	71	83
Sulfation (PA)	%	63	64	66	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	17	9	5	14
Sodium	ppm	2	2	<1	3
Potassium	ppm	1	2	1	<1



WEAR METALS

Iron	ppm	21	14	5	31
Copper	ppm	3	1	3	5
Lead	ppm	<1	0	<1	0
Tin	ppm	1	<1	<1	1
Aluminum	ppm	6	5	0	▲ 11
Chromium	ppm	1	1	0	3
Molybdenum	ppm	46	45	42	38
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1762	1645	1766	1683
Magnesium	ppm	529	523	480	534
Zinc	ppm	1209	1173	1126	1055
Phosphorus	ppm	1022	947	953	937
Barium	ppm	0	0	0	0
Boron	ppm	25	31	31	31

Depot: VOLVO0093
Unique No: 10940265
Signed: Wes Davis
Report Date: 22 Mar 2024



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GRAPHS

