



CONSTRUCTION EQUIPMENT

716675 ALTA RENTS VOLVO L70H 624454 - DIESEL ENGINE



Sample No: VCP449921
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 716675 ALTA RENTS



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SAMPLE INFORMATION

Sample Number	VCP449921	VCP435639	VCP419341	VCP353637
Sample Date	20 May 2024	20 Dec 2023	23 May 2023	18 Jun 2022
Machine Hours	4170	3446	2683	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	13.2	13.6
Base Number (BN)	mg KOH/g	10.0	10.3	10.4	8.1
Oxidation (PA)	%	79	82	83	76



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0.3	0.5
Nitration (PA)	%	61	63	63	62
Sulfation (PA)	%	59	60	62	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	6	7
Sodium	ppm	3	2	<1	3
Potassium	ppm	<1	0	<1	0



WEAR METALS

Iron	ppm	9	12	15	18
Copper	ppm	<1	1	3	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	1	2	<1	1
Aluminum	ppm	7	11	18	7
Chromium	ppm	<1	1	1	2
Molybdenum	ppm	44	45	50	38
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	9
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1714	1809	1654	1656
Magnesium	ppm	570	581	490	480
Zinc	ppm	1187	1225	1085	1063
Phosphorus	ppm	944	1026	904	850
Barium	ppm	0	0	2	<1
Boron	ppm	37	26	32	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: VOLVO0093
Unique No: 11046910
Signed: Wes Davis
Report Date: 28 May 2024



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VOLVO GRAPHS

