



CONSTRUCTION EQUIPMENT

VOLVO L70H 624454 - DIESEL ENGINE



Sample No: VCP435639
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



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SAMPLE INFORMATION

Sample Number	VCP435639	VCP419341	VCP353637	VCP341569
Sample Date	20 Dec 2023	23 May 2023	18 Jun 2022	17 Feb 2022
Machine Hours	3446	2683	0	560
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	13.2	13.6	12.7
Base Number (BN)	mg KOH/g	10.3	10.4	8.1	10.5
Oxidation (PA)	%	82	83	76	79



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.5	0.4
Nitration (PA)	%	63	63	62	74
Sulfation (PA)	%	60	62	59	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	15
Sodium	ppm	2	<1	3	6
Potassium	ppm	0	<1	0	2



WEAR METALS

Iron	ppm	12	15	18	36
Copper	ppm	1	3	3	9
Lead	ppm	<1	<1	<1	2
Tin	ppm	2	<1	1	3
Aluminum	ppm	11	18	7	20
Chromium	ppm	1	1	2	5
Molybdenum	ppm	45	50	38	48
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	9	0
Manganese	ppm	<1	<1	1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1809	1654	1656	1681
Magnesium	ppm	581	490	480	621
Zinc	ppm	1225	1085	1063	1197
Phosphorus	ppm	1026	904	850	1058
Barium	ppm	0	2	<1	1
Boron	ppm	26	32	32	37

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: 10808092
Signed: Wes Davis
Report Date: 02 Jan 2024



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GRAPHS

