



CONSTRUCTION EQUIPMENT

VOLVO L70H 624135 - L70H - DIESEL ENGINE



Sample No: VCP442653
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP442653	VCP418540	VCP376129	VCP357058
Sample Date	15 Jan 2024	11 Jul 2023	09 Aug 2022	22 Mar 2022
Machine Hours	3077	2485	1725	923
Oil Hours	0	0	0	923
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.4	12.1	13.0
Base Number (BN)	mg KOH/g	10.4	10.3	7.9	11.9
Oxidation (PA)	%	79	83	71	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0.4	0.3
Nitration (PA)	%	60	73	88	65
Sulfation (PA)	%	59	60	66	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.5	<1.0
Silicon	ppm	7	8	6	7
Sodium	ppm	2	4	10	<1
Potassium	ppm	1	0	0	1



WEAR METALS

Iron	ppm	13	21	13	14
Copper	ppm	<1	3	84	1
Lead	ppm	<1	0	2	<1
Tin	ppm	<1	<1	2	<1
Aluminum	ppm	10	14	4	4
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	62	62	59	46
Nickel	ppm	<1	0	1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1661	1927	1090	1668
Magnesium	ppm	541	576	857	519
Zinc	ppm	1157	1184	1166	1132
Phosphorus	ppm	991	995	896	951
Barium	ppm	0	0	<1	0
Boron	ppm	43	39	5	41

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: VOLVO0090
Unique No: 10834655
Signed: Wes Davis
Report Date: 18 Jan 2024



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GRAPHS

