



CONSTRUCTION EQUIPMENT

23964 VOLVO L70H 623763 - DIESEL ENGINE



Sample No: VCP435172
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23964



SAMPLE INFORMATION

Sample Number	VCP435172	VCP364953	VCP346193	VCP328373
Sample Date	14 Sep 2023	04 Jan 2023	21 Feb 2022	15 Oct 2021
Machine Hours	4069	3447	2579	2210
Oil Hours	4000	1000	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.5	12.9	13.1	12.9
Base Number (BN)	mg KOH/g	9.5	8.2	11.7	---
Oxidation (PA)	%	78	56	86	90



CONTAMINATION

Soot %	%	0.6	0.3	0.2	0.6
Nitration (PA)	%	68	57	61	91
Sulfation (PA)	%	60	55	65	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	6	8	9
Sodium	ppm	2	1	2	3
Potassium	ppm	2	2	2	<1



WEAR METALS

Iron	ppm	25	13	16	42
Copper	ppm	2	<1	2	7
Lead	ppm	<1	1	1	1
Tin	ppm	<1	<1	1	2
Aluminum	ppm	13	9	6	10
Chromium	ppm	3	<1	1	3
Molybdenum	ppm	51	90	40	46
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1761	1619	1900	1752
Magnesium	ppm	506	414	569	525
Zinc	ppm	1201	1365	1189	1149
Phosphorus	ppm	1003	1044	998	923
Barium	ppm	0	0	0	0
Boron	ppm	50	322	51	14

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: VOLVO3387
Unique No: 10656234
Signed: Wes Davis
Report Date: 20 Sep 2023



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GRAPHS

