



CONSTRUCTION EQUIPMENT

729269 MACK CONCRETE VOLVO L110H 631841 - DIESEL ENGINE



Sample No: VCP450715
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 729269 MACK CONCRETE



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SAMPLE INFORMATION

Sample Number	VCP450715	VCP405593	VCP381265	VCP364014
Sample Date	11 Jun 2024	28 Mar 2023	03 Nov 2022	25 Aug 2022
Machine Hours	13345	9800	8509	7894
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.9	13.5	13.5	13.3
Base Number (BN)	mg KOH/g	5.9	9.4	11.5	11.0
Oxidation (PA)	%	65	90	90	89



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.6	0.4	0.4
Nitration (PA)	%	76	79	70	73
Sulfation (PA)	%	61	64	67	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	8	3	5
Sodium	ppm	2	3	3	<1
Potassium	ppm	4	<1	1	0



WEAR METALS

Iron	ppm	31	16	9	11
Copper	ppm	7	2	1	1
Lead	ppm	2	1	<1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	9	7	4	4
Chromium	ppm	1	1	<1	<1
Molybdenum	ppm	12	49	43	45
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2277	1793	1670	1681
Magnesium	ppm	106	544	486	504
Zinc	ppm	1100	1224	1111	1131
Phosphorus	ppm	926	1030	895	902
Barium	ppm	0	0	0	<1
Boron	ppm	2	27	28	31

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: 11075828
Signed: Don Baldrige
Report Date: 14 Jun 2024



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VOLVO GRAPHS

