



CONSTRUCTION EQUIPMENT

620772 MOSAIC VOLVO L110H 12152 - DIESEL ENGINE



Sample No: VCP429227
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 620772 MOSAIC



SAMPLE INFORMATION

Sample Number	VCP429227	VCP415598	VCP394447	VCP372474
Sample Date	19 Oct 2023	27 Jun 2023	09 Mar 2023	17 Jun 2022
Machine Hours	5794	5254	4719	3476
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.0	13.2	13.6
Base Number (BN)	mg KOH/g	10.3	10.2	9.9	11.9
Oxidation (PA)	%	81	82	79	89



CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	65	66	64	71
Sulfation (PA)	%	60	60	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	5
Sodium	ppm	2	3	2	0
Potassium	ppm	0	0	<1	2



WEAR METALS

Iron	ppm	8	11	11	10
Copper	ppm	1	1	2	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	2	4	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	47	47	45	45
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1702	1823	1584	1831
Magnesium	ppm	541	536	461	492
Zinc	ppm	1207	1160	1098	1184
Phosphorus	ppm	1002	971	872	1002
Barium	ppm	0	0	0	0
Boron	ppm	25	32	53	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: 10741863
Signed: Wes Davis
Report Date: 16 Nov 2023



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GRAPHS

