



CONSTRUCTION EQUIPMENT

674462 MOSAIC VOLVO L110H 12152 - DIESEL ENGINE



Sample No: VCP428739
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 674462 MOSAIC



SAMPLE INFORMATION

Sample Number	VCP428739	VCP429227	VCP415598	VCP394447
Sample Date	16 Feb 2024	19 Oct 2023	27 Jun 2023	09 Mar 2023
Machine Hours	6265	5794	5254	4719
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	13.0	13.2
Base Number (BN)	mg KOH/g	8.5	10.3	10.2	9.9
Oxidation (PA)	%	71	81	82	79

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.3	0.3
Nitration (PA)	%	66	65	66	64
Sulfation (PA)	%	60	60	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	5
Sodium	ppm	25	2	3	2
Potassium	ppm	10	0	0	<1



WEAR METALS

Iron	ppm	10	8	11	11
Copper	ppm	1	1	1	2
Lead	ppm	0	<1	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	3	2	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	39	47	47	45
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1778	1702	1823	1584
Magnesium	ppm	436	541	536	461
Zinc	ppm	1006	1207	1160	1098
Phosphorus	ppm	903	1002	971	872
Barium	ppm	0	0	0	0
Boron	ppm	33	25	32	53

Depot: VOLVO0093
Unique No: 10896429
Signed: Wes Davis
Report Date: 25 Feb 2024



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VOLVO GRAPHS

