



CONSTRUCTION EQUIPMENT

717089 MOSAIC VOLVO EW160E 324250 - DIESEL ENGINE



Sample No: VCP451463
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 717089 MOSAIC



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SAMPLE INFORMATION

Sample Number	VCP451463	VCP441973	VCP427328	---
Sample Date	30 May 2024	31 Jan 2024	29 Sep 2023	---
Machine Hours	1568	1027	584	---
Oil Hours	500	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	12.2	11.9	10.6	---
Base Number (BN)	mg KOH/g	7.7	7.9	5.1	---
Oxidation (PA)	%	80	81	65	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	73	74	86	---
Sulfation (PA)	%	59	62	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.2	---
Silicon	ppm	8	15	32	---
Sodium	ppm	1	2	3	---
Potassium	ppm	<1	2	4	---



WEAR METALS

Iron	ppm	4	9	10	---
Copper	ppm	11	71	190	---
Lead	ppm	0	1	2	---
Tin	ppm	0	2	3	---
Aluminum	ppm	1	2	3	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	34	45	77	---
Nickel	ppm	0	2	1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	2	3	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1657	1619	2186	---
Magnesium	ppm	403	351	43	---
Zinc	ppm	970	998	1234	---
Phosphorus	ppm	865	839	968	---
Barium	ppm	0	1	0	---
Boron	ppm	15	19	17	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0093
Unique No: 11087191
Signed: Don Baldrige
Report Date: 21 Jun 2024



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GRAPHS

