



CONSTRUCTION EQUIPMENT

660078 MOSAIC CO VOLVO A45G 352594 - DIESEL ENGINE



Sample No: VCP449203
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 660078 MOSAIC CO



SAMPLE INFORMATION

Sample Number	VCP449203	VCP0007630	---	---
Sample Date	12 Jan 2024	06 Jun 2023	---	---
Machine Hours	5024	0	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.3	---	---
Base Number (BN)	mg KOH/g	9.5	6.6	---	---
Oxidation (PA)	%	77	61	---	---

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	---	---
Soot %	%	0.2	0.5	---	---
Nitration (PA)	%	63	83	---	---
Sulfation (PA)	%	59	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	7	7	---	---
Sodium	ppm	3	3	---	---
Potassium	ppm	<1	<1	---	---



WEAR METALS

Iron	ppm	9	13	---	---
Copper	ppm	1	2	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	<1	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	40	33	---	---
Nickel	ppm	4	2	---	---
Titanium	ppm	5	55	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1755	1839	---	---
Magnesium	ppm	503	306	---	---
Zinc	ppm	1190	1199	---	---
Phosphorus	ppm	1024	965	---	---
Barium	ppm	0	0	---	---
Boron	ppm	50	90	---	---

Depot: VOLVO0093
Unique No: 10861623
Signed: Wes Davis
Report Date: 06 Feb 2024



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GRAPHS

