



# CONSTRUCTION EQUIPMENT

## 576354 MOSAIC - DIESEL ENGINE



**Sample No:** VCP440167  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 576354 MOSAIC



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
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### SAMPLE INFORMATION

Sample Number	VCP440167	VCP436254	---	---
Sample Date	07 Jun 2024	13 Dec 2023	---	---
Machine Hours	0	962	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---



### OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	█ 13.2	---	---
Base Number (BN)	mg KOH/g	█ 9.1	█ 8.7	---	---
Oxidation (PA)	%	65	82	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.4	█ 0.6	---	---
Nitration (PA)	%	64	77	---	---
Sulfation (PA)	%	55	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 10	█ 23	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 2	█ 2	---	---



### WEAR METALS

Iron	ppm	█ 24	█ 41	---	---
Copper	ppm	█ 6	█ 11	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ 2	█ 4	---	---
Aluminum	ppm	█ 13	█ 23	---	---
Chromium	ppm	█ 2	█ 4	---	---
Molybdenum	ppm	█ 56	█ 41	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 2	█ 6	---	---
Vanadium	ppm	<1	0	---	---



### ADDITIVES

Calcium	ppm	█ 1237	█ 1531	---	---
Magnesium	ppm	█ 784	█ 593	---	---
Zinc	ppm	█ 1151	█ 1175	---	---
Phosphorus	ppm	█ 917	█ 965	---	---
Barium	ppm	█ 0	█ 2	---	---
Boron	ppm	█ 11	█ 29	---	---

### 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:** 11073565  
**Signed:** Sean Felton  
**Report Date:** 13 Jun 2024



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## GRAPHS

