



CONSTRUCTION EQUIPMENT

MARTIN MARIETTA VOLVO EC480E 311274 - FRONT RIGHT FINAL DRIVE



Sample No: VCP392682
Oil Type: CHEVRON DELO GEAR ESI OIL 85W140
Job No: MARTIN MARIETTA



SAMPLE INFORMATION

Sample Number	VCP392682	---	---	---
Sample Date	03 Aug 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 170	---	---	---
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CONTAMINATION

Silicon	ppm	● 638	---	---	---
Sodium	ppm	█ 14	---	---	---
Potassium	ppm	█ 231	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	● 2112	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	▲ 108	---	---	---
Chromium	ppm	● 25	---	---	---
Molybdenum	ppm	█ 11	---	---	---
Nickel	ppm	4	---	---	---
Titanium	ppm	7	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 19	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1077	---	---	---
Magnesium	ppm	█ 94	---	---	---
Zinc	ppm	█ 109	---	---	---
Phosphorus	ppm	█ 889	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 318	---	---	---

Depot: VOLVO0088
Unique No: 10669664
Signed: Don Baldrige
Report Date: 29 Sep 2023



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GRAPHS

