



CONSTRUCTION EQUIPMENT

MARTIN MARIETTA VOLVO EC480E 311274 - FRONT LEFT FINAL DRIVE



Sample No: VCP392655
Oil Type: CHEVRON DELO GEAR ESI OIL 85W140
Job No: MARTIN MARIETTA



SAMPLE INFORMATION

Sample Number	VCP392655	---	---	---
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	140	---	---	---
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CONTAMINATION

Silicon	ppm	274	---	---	---
Sodium	ppm	6	---	---	---
Potassium	ppm	125	---	---	---

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 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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	883	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	42	---	---	---
Chromium	ppm	9	---	---	---
Molybdenum	ppm	9	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	7	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	593	---	---	---
Magnesium	ppm	58	---	---	---
Zinc	ppm	134	---	---	---
Phosphorus	ppm	892	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	239	---	---	---

Depot: VOLVO0088
Unique No: 10669665
Signed: Don Baldrige
Report Date: 29 Sep 2023



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VOLVO GRAPHS

