



CONSTRUCTION EQUIPMENT

VOLVO EC160EL 310364 - REAR RIGHT FINAL DRIVE



Sample No: VCP384728
Oil Type: CHEVRON MULTIGEAR EP5 80W90
Job No:



DH FUNK AND SONS LLC
 3995 CONTINENTAL DRIVE
 COLUMBIA, PA
 US 17512
 Contact: GARY SHEPHERD
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 T:
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SAMPLE INFORMATION

Sample Number	VCP384728	VCP335941	---	---
Sample Date	13 Jun 2023	25 Mar 2022	---	---
Machine Hours	4000	3000	---	---
Oil Hours	1000	1000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

OIL CONDITION

Visc @ 40°C	cSt	128	129	---	---
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CONTAMINATION

Water	%	---	▲ 0.466	---	---
Silicon	ppm	▲ 262	3463	---	---
Sodium	ppm	■ 3	30	---	---
Potassium	ppm	■ 21	243	---	---

WEAR METALS

Iron	ppm	▲ 1167	6508	---	---
Copper	ppm	■ 2	9	---	---
Lead	ppm	■ 0	2	---	---
Tin	ppm	■ <1	2	---	---
Aluminum	ppm	▲ 65	120	---	---
Chromium	ppm	■ 5	30	---	---
Molybdenum	ppm	■ 4	10	---	---
Nickel	ppm	■ 2	9	---	---
Titanium	ppm	■ 4	49	---	---
Silver	ppm	■ 0	<1	---	---
Manganese	ppm	■ 8	46	---	---
Vanadium	ppm	■ <1	2	---	---

ADDITIVES

Calcium	ppm	■ 179	1560	---	---
Magnesium	ppm	■ 47	794	---	---
Zinc	ppm	■ 73	185	---	---
Phosphorus	ppm	■ 881	959	---	---
Barium	ppm	■ 0	0	---	---
Boron	ppm	■ 118	149	---	---

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. Resample at the next service interval to monitor. 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.

Depot: DHFCOL
Unique No: 10522367
Signed: Sean Felton
Report Date: 20 Jun 2023



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GRAPHS

