



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 310241 - REAR RIGHT FINAL DRIVE



Sample No: VCP408925
Oil Type: CHEVRON DELO GEAR ESI OIL 85W140
Job No:



SAMPLE INFORMATION

Sample Number	VCP408925	VCP407911	VCP274727	VCP223124
Sample Date	21 Jun 2023	31 May 2023	16 Jun 2020	17 Jan 2020
Machine Hours	0	4255	2188	1780
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE

DIRT PLUS
 1001 PRINCE GEORGES BLVD
 UPPER MARLBORO, MD
 US 20772
 Contact: MARCO DECESARIS
 mdecasaris@dirtyplus.biz
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	335	534.0	312	193
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CONTAMINATION

Water	%	---	0.313	---	---
Silicon	ppm	752	3058	333	1103
Sodium	ppm	5	11	1	<1
Potassium	ppm	25	79	10	34



WEAR METALS

Iron	ppm	1838	7076	724	2495
Copper	ppm	3	11	1	4
Lead	ppm	1	2	<1	1
Tin	ppm	<1	2	0	<1
Aluminum	ppm	92	357	38	162
Chromium	ppm	19	79	10	32
Molybdenum	ppm	3	13	0	4
Nickel	ppm	4	8	<1	2
Titanium	ppm	12	48	5	15
Silver	ppm	<1	0	0	0
Manganese	ppm	14	52	6	22
Vanadium	ppm	<1	2	<1	<1



ADDITIVES

Calcium	ppm	18	69	26	73
Magnesium	ppm	12	32	6	15
Zinc	ppm	5	22	17	33
Phosphorus	ppm	914	950	857	1203
Barium	ppm	0	<1	0	<1
Boron	ppm	146	181	122	172

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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.

Depot: DIRUPP
Unique No: 10535212
Signed: Jonathan Hester
Report Date: 30 Jun 2023



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GRAPHS

