



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 310241 - REAR LEFT FINAL DRIVE



Sample No: VCP423082
Oil Type: CHEVRON DELO GEAR ESI OIL 85W140
Job No:



SAMPLE INFORMATION

Sample Number	VCP423082	VCP407908	VCP283207	VCP223122
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	367	1717	750	451
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CONTAMINATION

Water	%	---	0.727	0.278	0.515
Silicon	ppm	1936	8290	2627	3887
Sodium	ppm	7	24	7	7
Potassium	ppm	50	208	52	91



WEAR METALS

Iron	ppm	3895	10000	4367	6948
Copper	ppm	6	25	7	12
Lead	ppm	2	4	2	2
Tin	ppm	<1	4	0	<1
Aluminum	ppm	200	799	235	418
Chromium	ppm	35	160	48	75
Molybdenum	ppm	6	27	0	10
Nickel	ppm	7	18	4	6
Titanium	ppm	27	124	34	50
Silver	ppm	0	<1	0	0
Manganese	ppm	26	117	31	53
Vanadium	ppm	<1	5	1	2



ADDITIVES

Calcium	ppm	21	76	37	80
Magnesium	ppm	19	74	12	35
Zinc	ppm	5	25	17	30
Phosphorus	ppm	778	933	789	991
Barium	ppm	0	4	1	<1
Boron	ppm	133	180	131	152

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. The oil is no longer serviceable due to the presence of contaminants.

Depot: DIRUPP
Unique No: 10535210
Signed: Jonathan Hester
Report Date: 30 Jun 2023



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GRAPHS

