



CONSTRUCTION EQUIPMENT

594455 MOSAIC VOLVO EC480E 314327 - REAR RIGHT FINAL DRIVE



Sample No: VCP425013
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 594455 MOSAIC



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP425013	VCP399502	VCP393615	VCP373154
Sample Date	19 Aug 2023	02 Dec 2022	02 Dec 2022	12 May 2022
Machine Hours	4013	3030	3030	2020
Oil Hours	1000	1030	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	354	198	292	241
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CONTAMINATION

Silicon	ppm	562	240	427	26
Sodium	ppm	0	<1	0	0
Potassium	ppm	0	0	2	2



WEAR METALS

Iron	ppm	3883	2372	3153	957
Copper	ppm	6	4	6	2
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	39	17	34	5
Chromium	ppm	37	29	31	10
Molybdenum	ppm	6	4	7	2
Nickel	ppm	4	2	1	0
Titanium	ppm	3	2	3	<1
Silver	ppm	0	0	0	0
Manganese	ppm	29	16	24	7
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	46	30	70	16
Magnesium	ppm	12	7	20	4
Zinc	ppm	44	72	90	30
Phosphorus	ppm	850	503	811	565
Barium	ppm	0	<1	2	4
Boron	ppm	121	36	100	46

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.

Depot: VOLVO0093
Unique No: 10669032
Signed: Don Baldrige
Report Date: 28 Sep 2023



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GRAPHS

