



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 500HR CSA/TRIANGLE GRADING 19006



VOLVO EC220E 1877 (S/N 310556) - REAR RIGHT FINAL

Sample No: VCP407569
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 19006



SAMPLE INFORMATION

Sample Number	VCP407569	VCP382650	VCP322738	---
Sample Date	03 Jul 2023	20 Feb 2023	06 Jun 2021	---
Machine Hours	6473	6088	4108	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	SEVERE	SEVERE	SEVERE	---

TRIANGLE GRADING AND PAVING INC

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OIL CONDITION

Visc @ 40°C	cSt	413	968	756	---
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CONTAMINATION

Water	%	0.300	0.573	---	---
Silicon	ppm	3660	4048	5101	---
Sodium	ppm	204	231	213	---
Potassium	ppm	234	255	256	---



WEAR METALS

Iron	ppm	5269	7340	7393	---
Copper	ppm	7	12	11	---
Lead	ppm	<1	2	2	---
Tin	ppm	1	2	<1	---
Aluminum	ppm	860	863	955	---
Chromium	ppm	49	75	85	---
Molybdenum	ppm	7	10	10	---
Nickel	ppm	5	14	8	---
Titanium	ppm	56	68	87	---
Silver	ppm	0	0	0	---
Manganese	ppm	36	49	55	---
Vanadium	ppm	2	2	3	---



ADDITIVES

Calcium	ppm	197	180	218	---
Magnesium	ppm	123	122	119	---
Zinc	ppm	42	18	29	---
Phosphorus	ppm	980	794	774	---
Barium	ppm	7	7	4	---
Boron	ppm	170	139	145	---

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. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: TRIBUR
Unique No: 10552878
Signed: Don Baldrige
Report Date: 14 Jul 2023



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GRAPHS

