



CONSTRUCTION EQUIPMENT

SPM606742 ATLAS ORG VOLVO EC220E 314134 - SWING DRIVE



Sample No: VCP418338
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SPM606742 ATLAS ORG



SAMPLE INFORMATION

Sample Number	VCP418338	VCP424927	---	---
Sample Date	12 Sep 2023	21 Jun 2023	---	---
Machine Hours	7093	6525	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	SEVERE	ABNORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 187	█ 181	---	---
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CONTAMINATION

Silicon	ppm	█ 29	█ 19	---	---
Sodium	ppm	█ 1	█ 1	---	---
Potassium	ppm	█ 1	█ 2	---	---

Diagnosis

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. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	◆ 2263	▲ 659	---	---
Copper	ppm	█ 43	█ 9	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 2	█ 4	---	---
Chromium	ppm	▲ 22	█ 6	---	---
Molybdenum	ppm	█ 2	█ <1	---	---
Nickel	ppm	█ 2	█ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 21	█ 7	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 4	█ 2	---	---
Magnesium	ppm	█ 1	█ 4	---	---
Zinc	ppm	█ 36	█ 8	---	---
Phosphorus	ppm	█ 399	█ 219	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 2	---	---

Depot: VOLVO0093
Unique No: 10657941
Signed: Jonathan Hester
Report Date: 22 Sep 2023



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GRAPHS

