



CONSTRUCTION EQUIPMENT

443969 ATLAS ORG VOLVO EC220E 314134 - REAR LEFT FINAL DRIVE



Sample No: VCP428724
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 443969 ATLAS ORG



SAMPLE INFORMATION

Sample Number	VCP428724	VCP418342	VCP413205	---
Sample Date	21 Dec 2023	12 Sep 2023	21 Jun 2023	---
Machine Hours	7771	7093	6525	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	162	161	162	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	▲ 115	32	17	---
Sodium	ppm	11	4	3	---
Potassium	ppm	42	12	6	---

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. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	▲ 900	334	287	---
Copper	ppm	2	<1	<1	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	▲ 6	<1	5	---
Chromium	ppm	▲ 10	4	4	---
Molybdenum	ppm	<1	<1	1	---
Nickel	ppm	6	3	3	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	9	4	4	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	58	30	15	---
Magnesium	ppm	2	2	4	---
Zinc	ppm	6	22	14	---
Phosphorus	ppm	945	914	904	---
Barium	ppm	0	0	0	---
Boron	ppm	96	86	91	---

Depot: VOLVO0093
Unique No: 10808683
Signed: Don Baldrige
Report Date: 02 Jan 2024



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GRAPHS

