



CONSTRUCTION EQUIPMENT

X47332 VOLVO EC350 310659 - FRONT LEFT FINAL DRIVE



Sample No: VCP417999
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: X47332



SAMPLE INFORMATION

Sample Number	VCP417999	---	---	---
Sample Date	23 Jul 2023	---	---	---
Machine Hours	6125	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

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CONTAMINATION

Water	%	1.26	---	---	---
Silicon	ppm	4880	---	---	---
Sodium	ppm	16	---	---	---
Potassium	ppm	57	---	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. 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. Please note that the oil was too thick to perform some of the normal laboratory tests. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	8867	---	---	---
Copper	ppm	15	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	280	---	---	---
Chromium	ppm	107	---	---	---
Molybdenum	ppm	16	---	---	---
Nickel	ppm	8	---	---	---
Titanium	ppm	51	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	68	---	---	---
Vanadium	ppm	1	---	---	---



ADDITIVES

Calcium	ppm	10	---	---	---
Magnesium	ppm	16	---	---	---
Zinc	ppm	5	---	---	---
Phosphorus	ppm	142	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	3	---	---	---

Depot: VOLVO6244
Unique No: 10577005
Signed: Jonathan Hester
Report Date: 01 Aug 2023



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GRAPHS

