



CONSTRUCTION EQUIPMENT

SPM580384 VOLVO EC480 314333 - REAR RIGHT FINAL DRIVE



Sample No: VCP417689
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SPM580384



SAMPLE INFORMATION

Sample Number	VCP417689	VCP337685	VCP336764	VCP314889
Sample Date	17 Jul 2023	13 Aug 2022	16 Nov 2021	27 Mar 2021
Machine Hours	4033	3256	2161	1093
Oil Hours	0	0	2000	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	SEVERE	ABNORMAL	NORMAL	NORMAL

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
 ORLANDO, FL
 US 32829
 Contact: MICHAEL BEEBE
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OIL CONDITION

Visc @ 40°C	cSt	297	290	247	255
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CONTAMINATION

Silicon	ppm	284	130	12	6
Sodium	ppm	1	0	0	<1
Potassium	ppm	<1	2	0	0



WEAR METALS

Iron	ppm	1851	836	629	219
Copper	ppm	3	2	1	<1
Lead	ppm	0	<1	<1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	32	16	2	<1
Chromium	ppm	25	13	8	4
Molybdenum	ppm	6	4	2	0
Nickel	ppm	2	0	<1	<1
Titanium	ppm	3	1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	16	8	6	3
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	47	34	32	15
Magnesium	ppm	16	11	4	0
Zinc	ppm	50	41	37	25
Phosphorus	ppm	1053	876	773	680
Barium	ppm	<1	2	2	0
Boron	ppm	151	153	83	75

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: ORAORL
Unique No: 10566033
Signed: Doug Bogart
Report Date: 25 Jul 2023



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GRAPHS

