



CONSTRUCTION EQUIPMENT

W14366 VOLVO EC750 310197 - REAR RIGHT FINAL DRIVE



Sample No: VCP404681
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: W14366



SAMPLE INFORMATION

Sample Number	VCP404681	VCP406896	VCP379549	VCP384929
Sample Date	19 Jul 2023	18 Apr 2023	29 Dec 2022	06 Oct 2022
Machine Hours	7569	7030	6527	6064
Oil Hours	0	1000	500	1000
Oil Changed	Not Chngd	Changed	Not Chngd	Changed
Sample Status	SEVERE	SEVERE	SEVERE	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	155	148	151	167
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CONTAMINATION

Silicon	ppm	258	851	469	190
Sodium	ppm	3	11	8	3
Potassium	ppm	13	55	22	13

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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.



WEAR METALS

Iron	ppm	820	1430	1427	330
Copper	ppm	<1	2	3	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	48	186	79	49
Chromium	ppm	5	8	8	2
Molybdenum	ppm	1	2	2	2
Nickel	ppm	1	5	3	<1
Titanium	ppm	3	10	5	3
Silver	ppm	0	0	0	0
Manganese	ppm	6	12	10	3
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	274	908	278	203
Magnesium	ppm	29	99	49	42
Zinc	ppm	10	23	41	71
Phosphorus	ppm	482	802	686	1052
Barium	ppm	0	0	0	0
Boron	ppm	49	142	111	138

Depot: VOLVO0080
Unique No: 10574600
Signed: Don Baldrige
Report Date: 28 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

