



CONSTRUCTION EQUIPMENT

W14366 VOLVO EC750 310197 - REAR LEFT FINAL DRIVE



Sample No: VCP404680
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: W14366



SAMPLE INFORMATION

Sample Number	VCP404680	VCP406897	VCP379548	VCP384924
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	2000
Oil Changed	Not Chngd	Changed	Not Chngd	Changed
Sample Status	ABNORMAL	ABNORMAL	SEVERE	SEVERE

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OIL CONDITION

Visc @ 40°C	cSt	187	313	152	182
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CONTAMINATION

Water	%	---	0.230	---	0.207
Silicon	ppm	127	131	464	1084
Sodium	ppm	5	17	8	18
Potassium	ppm	4	4	21	51



WEAR METALS

Iron	ppm	585	366	1371	2716
Copper	ppm	<1	0	3	6
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	20	21	78	120
Chromium	ppm	4	2	8	16
Molybdenum	ppm	4	9	2	4
Nickel	ppm	0	0	3	3
Titanium	ppm	2	1	5	13
Silver	ppm	0	0	0	0
Manganese	ppm	4	3	10	20
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	113	115	255	612
Magnesium	ppm	15	27	48	114
Zinc	ppm	35	13	33	57
Phosphorus	ppm	602	968	661	1022
Barium	ppm	0	0	0	0
Boron	ppm	65	199	109	143

Diagnosis

We advise that you check all areas where dirt can enter the system. No corrective action is recommended at this time. 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.

Depot: VOLVO0080
Unique No: 10574597
Signed: Sean Felton
Report Date: 28 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

