



CONSTRUCTION EQUIPMENT

W14767 VOLVO EC750 310197 - REAR LEFT FINAL DRIVE



Sample No: VCP441224
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: W14767



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SAMPLE INFORMATION

Sample Number	VCP441224	VCP404680	VCP406897	VCP379548
Sample Date	13 Oct 2023	19 Jul 2023	18 Apr 2023	29 Dec 2022
Machine Hours	8054	7569	7030	6527
Oil Hours	2000	0	1000	500
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	SEVERE



OIL CONDITION

Visc @ 40°C	cSt	185	187	313	152
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CONTAMINATION

Water	%	---	---	0.230	---
Silicon	ppm	155	127	131	464
Sodium	ppm	4	5	17	8
Potassium	ppm	8	4	4	21



WEAR METALS

Iron	ppm	865	585	366	1371
Copper	ppm	2	<1	0	3
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	22	20	21	78
Chromium	ppm	5	4	2	8
Molybdenum	ppm	4	4	9	2
Nickel	ppm	<1	0	0	3
Titanium	ppm	2	2	1	5
Silver	ppm	0	0	0	0
Manganese	ppm	6	4	3	10
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	79	113	115	255
Magnesium	ppm	14	15	27	48
Zinc	ppm	16	35	13	33
Phosphorus	ppm	496	602	968	661
Barium	ppm	<1	0	0	0
Boron	ppm	45	65	199	109

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.

Depot: VOLVO0080
Unique No: 10702442
Signed: Don Baldrige
Report Date: 23 Oct 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

