



CONSTRUCTION EQUIPMENT

SW-29976-2 CASTLE VOLVO EC480E 314667 - RIGHT SWING DRIVE



Sample No: VCP440464
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SW-29976-2 CASTLE



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SAMPLE INFORMATION

Sample Number	VCP440464	VCP411627	VCP406294	VCP396450
Sample Date	19 Feb 2024	11 Sep 2023	24 Apr 2023	17 Nov 2022
Machine Hours	5031	4022	3144	2134
Oil Hours	1000	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	125	162	159	152
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	4	2	8
Sodium	ppm	<1	1	<1	<1
Potassium	ppm	1	<1	<1	<1



WEAR METALS

Iron	ppm	41	103	69	466
Copper	ppm	2	3	2	8
Lead	ppm	1	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	1	1	7
Molybdenum	ppm	14	27	65	4
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	1	5
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	200	9	14	5
Magnesium	ppm	140	0	2	1
Zinc	ppm	248	0	32	50
Phosphorus	ppm	488	737	876	991
Barium	ppm	0	0	0	0
Boron	ppm	28	129	157	126

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO8770
Unique No: 10898662
Signed: Jonathan Hester
Report Date: 28 Feb 2024



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VOLVO GRAPHS

