



CONSTRUCTION EQUIPMENT

SW-23802-2 CASTLE VA VOLVO EC480E 314667 - LEFT SWING DRIVE



Sample No: VCP412483
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SW-23802-2 CASTLE VA



SAMPLE INFORMATION

Sample Number	VCP412483	VCP400937	VCP396451	VCP346335
Sample Date	11 Sep 2023	24 Apr 2023	17 Nov 2022	03 Jun 2022
Machine Hours	4022	3144	2134	1014
Oil Hours	1000	1000	1000	1014
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	161	161	151	174
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CONTAMINATION

Silicon	ppm	5	3	8	11
Sodium	ppm	1	<1	<1	2
Potassium	ppm	<1	<1	<1	0



WEAR METALS

Iron	ppm	160	106	481	85
Copper	ppm	4	3	9	15
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	1	1
Chromium	ppm	2	2	7	1
Molybdenum	ppm	34	62	2	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	2	2	5	2
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	6	14	6	5
Magnesium	ppm	0	2	1	0
Zinc	ppm	0	30	40	13
Phosphorus	ppm	931	894	987	327
Barium	ppm	0	0	0	5
Boron	ppm	156	160	134	9

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: 10655619
Signed: Sean Felton
Report Date: 20 Sep 2023



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GRAPHS

