



CONSTRUCTION EQUIPMENT

SWA404611 VOLVO EW180E 322003 - REAR AXLE



Sample No: VCP429595
Oil Type: VOLVO
Job No: SWA404611



SAMPLE INFORMATION

Sample Number	VCP429595	VCP330853	VCP317757	VCP283059
Sample Date	29 Nov 2023	01 Apr 2022	13 Jul 2021	10 Aug 2020
Machine Hours	3015	2006	1591	1067
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 40°C	cSt	43.0	53.3	55.3	53.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	15	9	8	8
Sodium	ppm	6	26	25	27
Potassium	ppm	0	0	2	<1

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.



WEAR METALS

Iron	ppm	50	60	53	39
Copper	ppm	6	18	17	15
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	2	0	0
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	3	<1
Manganese	ppm	1	3	3	2
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	3790	3526	3290	3400
Magnesium	ppm	0	13	11	6
Zinc	ppm	1554	1242	1336	1423
Phosphorus	ppm	1246	1155	1087	1118
Barium	ppm	0	2	7	4
Boron	ppm	122	120	132	146

Depot: VOLVO0142
Unique No: 10769955
Signed: Wes Davis
Report Date: 06 Dec 2023



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GRAPHS

