



CONSTRUCTION EQUIPMENT

594651 VOLVO EW180 320056 - REAR AXLE



Sample No: VCP412531
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 594651



HUBBARD CONSTRUCTION
 303 WEST LANDSTREET ROAD
 ORLANDO, FL
 US 32824
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SAMPLE INFORMATION

Sample Number	VCP412531	VCP372713	VCP310144	VCP301852
Sample Date	17 Aug 2023	27 Jun 2022	26 Jun 2021	28 Jan 2021
Machine Hours	3505	6528	2404	2155
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	221	224	216	43.0
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CONTAMINATION

Silicon	ppm	7	4	6	22
Sodium	ppm	2	3	1	9
Potassium	ppm	0	0	<1	0



WEAR METALS

Iron	ppm	47	31	25	111
Copper	ppm	9	6	3	17
Lead	ppm	0	0	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	1	<1	0	1
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	0	<1	<1	2
Nickel	ppm	0	0	0	2
Titanium	ppm	0	0	<1	1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	603	470	639	4140
Magnesium	ppm	7	8	5	22
Zinc	ppm	296	223	296	1577
Phosphorus	ppm	1059	763	918	1265
Barium	ppm	<1	<1	1	7
Boron	ppm	156	111	266	118

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: HUBORL
Unique No: 10617631
Signed: Jonathan Hester
Report Date: 25 Aug 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

