



CONSTRUCTION EQUIPMENT

14028 CASTLE VOLVO ECR145E 312161 - SWING DRIVE



Sample No: VCP447812
Oil Type: VOLVO SUPER GEAR OIL 75W-80-GO102
Job No: 14028 CASTLE



SAMPLE INFORMATION

Sample Number	VCP447812	VCP296942	VCP263401	---
Sample Date	19 Jan 2024	13 Jan 2021	23 Mar 2020	---
Machine Hours	2757	945	465	---
Oil Hours	1000	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
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 T:
 F: (804)266-1611



OIL CONDITION

Visc @ 40°C	cSt	▲ 253	■ 233	■ 179	---
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CONTAMINATION

Water	%	▲ 0.455	NEG	NEG	---
Silicon	ppm	■ 15	■ 9	■ 14	---
Sodium	ppm	■ 4	■ 2	■ 2	---
Potassium	ppm	■ <1	■ 6	■ 2	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate concentration of water present in the oil. The oil viscosity is higher than normal. Confirm oil type.



WEAR METALS

Iron	ppm	■ 607	■ 317	■ 424	---
Copper	ppm	■ 27	■ 17	■ 25	---
Lead	ppm	■ 0	■ <1	■ 0	---
Tin	ppm	■ <1	0	<1	---
Aluminum	ppm	■ 2	1	<1	---
Chromium	ppm	■ 5	3	5	---
Molybdenum	ppm	■ 0	■ <1	■ 0	---
Nickel	ppm	■ <1	<1	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	■ 6	■ 3	■ 5	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	■ 15	■ 10	■ 19	---
Magnesium	ppm	■ 4	■ 2	■ 2	---
Zinc	ppm	■ 50	■ 36	■ 27	---
Phosphorus	ppm	■ 753	579	■ 464	---
Barium	ppm	■ 2	■ 3	■ 4	---
Boron	ppm	■ 55	■ 43	■ 2	---

Depot: VOLVO8882
Unique No: 10846789
Signed: Don Baldrige
Report Date: 26 Jan 2024



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GRAPHS

