



CONSTRUCTION EQUIPMENT

VOLVO ECR145E 314490 - REAR RIGHT FINAL DRIVE



Sample No: VCP0007512
Oil Type: GEAR OIL SAE 90W140
Job No:



SAMPLE INFORMATION

Sample Number	VCP0007512	VCP0002525	---	---
Sample Date	11 Aug 2023	27 Jun 2022	---	---
Machine Hours	2999	2042	---	---
Oil Hours	2999	2042	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ABNORMAL	NORMAL	---	---

ALTA EQUIPMENT COMPANY
 8750 PHILIPS HWY
 JACKSONVILLE, FL
 US 32256
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OIL CONDITION

Visc @ 40°C	cSt	252	329	---	---
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CONTAMINATION

Silicon	ppm	▲ 254	7	---	---
Sodium	ppm	4	<1	---	---
Potassium	ppm	1	0	---	---

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	▲ 871	125	---	---
Copper	ppm	2	<1	---	---
Lead	ppm	0	0	---	---
Tin	ppm	<1	3	---	---
Aluminum	ppm	7	1	---	---
Chromium	ppm	▲ 28	2	---	---
Molybdenum	ppm	3	<1	---	---
Nickel	ppm	2	<1	---	---
Titanium	ppm	3	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	9	2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	80	14	---	---
Magnesium	ppm	18	0	---	---
Zinc	ppm	51	11	---	---
Phosphorus	ppm	799	472	---	---
Barium	ppm	0	0	---	---
Boron	ppm	74	55	---	---

Depot: VOLVO0092
Unique No: 10606412
Signed: Don Baldrige
Report Date: 17 Aug 2023



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GRAPHS

