



CONSTRUCTION EQUIPMENT

SPM619899 VOLVO EC380E 310775 - RIGHT FINAL DRIVE



Sample No: VCP413146
Oil Type: GEAR OIL SAE 80W90
Job No: SPM619899



SAMPLE INFORMATION

Sample Number	VCP413146	VCP387464	VCP325768	---
Sample Date	12 Oct 2023	16 Nov 2022	21 Sep 2021	---
Machine Hours	22964	19763	16084	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	SEVERE	SEVERE	SEVERE	---

UNITED SCRAP

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 CICERO, IL
 US 60804
 Contact: RON LUCHTENBURG
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OIL CONDITION

Visc @ 40°C	cSt	201	205	158	---
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CONTAMINATION

Water	%	---	2.65	---	---
Silicon	ppm	302	231	232	---
Sodium	ppm	5	11	8	---
Potassium	ppm	13	13	12	---



WEAR METALS

Iron	ppm	1406	2211	1676	---
Copper	ppm	6	5	6	---
Lead	ppm	2	2	2	---
Tin	ppm	<1	2	<1	---
Aluminum	ppm	35	45	38	---
Chromium	ppm	25	52	21	---
Molybdenum	ppm	3	7	3	---
Nickel	ppm	4	9	2	---
Titanium	ppm	4	4	3	---
Silver	ppm	0	0	0	---
Manganese	ppm	10	16	10	---
Vanadium	ppm	<1	<1	<1	---



ADDITIVES

Calcium	ppm	3226	1901	625	---
Magnesium	ppm	229	126	91	---
Zinc	ppm	1122	853	232	---
Phosphorus	ppm	936	754	1032	---
Barium	ppm	0	0	0	---
Boron	ppm	5	39	149	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot: UNICICIL
Unique No: 10713364
Signed: Don Baldrige
Report Date: 30 Oct 2023



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GRAPHS

