



CONSTRUCTION EQUIPMENT

SW1025007 MGC VOLVO EC380EL 310677 - DIESEL ENGINE



Sample No: VCP425236
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1025007 MGC



SAMPLE INFORMATION

Sample Number	VCP425236	VCP346842	VCP281504	---
Sample Date	19 Oct 2023	09 Mar 2022	23 Sep 2020	---
Machine Hours	2872	2431	1854	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.6	12.8	---
Base Number (BN)	mg KOH/g	9.0	9.9	---	---
Oxidation (PA)	%	78	61	94	---



CONTAMINATION

Soot %	%	0.1	0.5	0.1	---
Nitration (PA)	%	59	72	76	---
Sulfation (PA)	%	58	56	65	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	8	9	---
Sodium	ppm	2	2	3	---
Potassium	ppm	0	0	0	---



WEAR METALS

Iron	ppm	5	11	8	---
Copper	ppm	3	18	27	---
Lead	ppm	<1	1	0	---
Tin	ppm	<1	1	<1	---
Aluminum	ppm	2	2	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	41	42	40	---
Nickel	ppm	0	1	<1	---
Titanium	ppm	0	<1	1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1731	1718	1764	---
Magnesium	ppm	514	545	512	---
Zinc	ppm	1179	1134	862	---
Phosphorus	ppm	968	950	749	---
Barium	ppm	0	0	0	---
Boron	ppm	45	41	24	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO6174
Unique No: 10710539
Signed: Wes Davis
Report Date: 25 Oct 2023



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GRAPHS

