



CONSTRUCTION EQUIPMENT

664 VOLVO A45G 353587 - DIESEL ENGINE



Sample No: VCP439265
Oil Type: MOBIL 15W40
Job No: 664



SAMPLE INFORMATION

Sample Number	VCP439265	VCP293032	VCP351791	---
Sample Date	15 Jan 2024	21 Sep 2023	03 Jul 2023	---
Machine Hours	1529	940	465	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	NORMAL	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
 12345 MAPLEVIEW STREET
 LAKESIDE, CA
 US 92040
 Contact: Mark Stewart
 mark.stewart@vcesvolvo.com
 T: X
 F: X



OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	▲ 11.8	█ 10.8	---
Base Number (BN)	mg KOH/g	█ 9.0	█ 9.3	█ 6.3	---
Oxidation (PA)	%	85	81	61	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.5	█ 0.4	█ 0.3	---
Nitration (PA)	%	68	67	86	---
Sulfation (PA)	%	65	64	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	█ 1.0	---
Silicon	ppm	█ 7	█ 6	█ 30	---
Sodium	ppm	█ 2	█ 9	█ 0	---
Potassium	ppm	█ 0	█ 6	█ 3	---



WEAR METALS

Iron	ppm	█ 14	█ 11	█ 27	---
Copper	ppm	█ 24	█ 6	█ 328	---
Lead	ppm	█ 0	█ <1	█ 1	---
Tin	ppm	█ 1	█ 1	█ 5	---
Aluminum	ppm	█ 2	█ 5	█ 3	---
Chromium	ppm	█ <1	█ <1	█ 2	---
Molybdenum	ppm	█ 40	█ 3	█ 95	---
Nickel	ppm	█ 2	█ 0	█ 3	---
Titanium	ppm	0	<1	█ <1	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ <1	█ 1	█ 2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	█ 1607	█ 1375	█ 2331	---
Magnesium	ppm	█ 493	█ 814	█ 17	---
Zinc	ppm	█ 1121	█ 844	█ 1215	---
Phosphorus	ppm	█ 884	█ 717	█ 1022	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 31	█ 33	█ 42	---

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: VOLVO4488
Unique No: 10843975
Signed: Wes Davis
Report Date: 23 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

