



CONSTRUCTION EQUIPMENT

663 VOLVO A45GFS 353531 - DIESEL ENGINE



Sample No: VCP439263
Oil Type: MOBIL 15W40
Job No: 663



SAMPLE INFORMATION

Sample Number	VCP439263	VCP412788	VCP289880	---
Sample Date	15 Jan 2024	24 Oct 2023	12 Jun 2023	---
Machine Hours	1485	0	445	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ABNORMAL	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
 12345 MAPLEVIEW STREET
 LAKESIDE, CA
 US 92040
 Contact: Mark Stewart
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 T: X
 F: X



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.4	10.9	---
Base Number (BN)	mg KOH/g	8.3	8.3	6.2	---
Oxidation (PA)	%	83	83	61	---

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.3	0.3	0.3	---
Nitration (PA)	%	62	71	90	---
Sulfation (PA)	%	64	64	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.6	---
Silicon	ppm	7	10	29	---
Sodium	ppm	2	3	2	---
Potassium	ppm	0	0	1	---



WEAR METALS

Iron	ppm	8	11	22	---
Copper	ppm	47	207	400	---
Lead	ppm	0	<1	0	---
Tin	ppm	1	2	5	---
Aluminum	ppm	2	2	4	---
Chromium	ppm	<1	<1	2	---
Molybdenum	ppm	39	43	94	---
Nickel	ppm	3	5	4	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1604	1688	2458	---
Magnesium	ppm	489	411	14	---
Zinc	ppm	1116	1071	1297	---
Phosphorus	ppm	881	893	1074	---
Barium	ppm	0	0	0	---
Boron	ppm	36	26	41	---

Depot: VOLVO4488
Unique No: 10843976
Signed: Wes Davis
Report Date: 23 Jan 2024



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GRAPHS

