



CONSTRUCTION EQUIPMENT

547 VOLVO A45GFS 353585 - DIESEL ENGINE



Sample No: VCP427211
Oil Type: MOBIL 15W40
Job No: 547



SAMPLE INFORMATION

Sample Number	VCP427211	VCP288874	VCP372839	---
Sample Date	10 Nov 2023	18 Aug 2023	02 Jun 2023	---
Machine Hours	1526	988	458	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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	12.4	12.3	▲ 9.1	---
Base Number (BN)	mg KOH/g	9.0	8.4	5.7	---
Oxidation (PA)	%	84	81	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	0.4	0.3	---
Nitration (PA)	%	62	65	85	---
Sulfation (PA)	%	66	63	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.8	▲ 7.3	---
Silicon	ppm	7	10	27	---
Sodium	ppm	3	2	2	---
Potassium	ppm	0	0	1	---



WEAR METALS

Iron	ppm	10	14	25	---
Copper	ppm	37	177	322	---
Lead	ppm	<1	0	0	---
Tin	ppm	1	2	5	---
Aluminum	ppm	2	4	4	---
Chromium	ppm	<1	1	2	---
Molybdenum	ppm	41	48	89	---
Nickel	ppm	2	3	4	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1661	1942	2331	---
Magnesium	ppm	508	471	19	---
Zinc	ppm	1141	1235	1226	---
Phosphorus	ppm	942	1002	1002	---
Barium	ppm	0	0	0	---
Boron	ppm	30	30	41	---

Depot: VOLVO4488
Unique No: 10752966
Signed: Wes Davis
Report Date: 22 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

