



CONSTRUCTION EQUIPMENT

VOLVO A45G 352854 - DIESEL ENGINE



Sample No: VCP149710
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP149710	VCP121837	---	---
Sample Date	13 Sep 2023	23 May 2022	---	---
Machine Hours	2160	496	---	---
Oil Hours	482	497	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	10.7	---	---
Base Number (BN)	mg KOH/g	8.9	7.3	---	---
Oxidation (PA)	%	52	55	---	---

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 acceptable for the time in service.



CONTAMINATION

Soot %	%	0.3	0.2	---	---
Nitration (PA)	%	58	75	---	---
Sulfation (PA)	%	50	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.4	---	---
Silicon	ppm	4	28	---	---
Sodium	ppm	0	1	---	---
Potassium	ppm	2	2	---	---



WEAR METALS

Iron	ppm	12	22	---	---
Copper	ppm	2	40	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	1	5	---	---
Aluminum	ppm	3	3	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	53	73	---	---
Nickel	ppm	5	1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1265	2257	---	---
Magnesium	ppm	763	127	---	---
Zinc	ppm	1188	1304	---	---
Phosphorus	ppm	989	1110	---	---
Barium	ppm	7	0	---	---
Boron	ppm	7	82	---	---

Depot: GLOPLE
Unique No: 10737805
Signed: Don Baldrige
Report Date: 14 Nov 2023



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GRAPHS

