



CONSTRUCTION EQUIPMENT

VOLVO A45G 352505 - DIESEL ENGINE



Sample No: VCP409135
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP409135	VCP399578	VCP391370	---
Sample Date	08 Jul 2023	22 Mar 2023	03 Jan 2023	---
Machine Hours	3142	2624	2392	---
Oil Hours	500	350	400	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.0	13.0	---
Base Number (BN)	mg KOH/g	7.3	9.0	8.8	---
Oxidation (PA)	%	57	61	63	---

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 %	%	0.5	0.3	0.4	---
Nitration (PA)	%	78	62	77	---
Sulfation (PA)	%	57	55	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	6	8	---
Sodium	ppm	1	2	<1	---
Potassium	ppm	4	<1	2	---



WEAR METALS

Iron	ppm	10	10	10	---
Copper	ppm	2	2	1	---
Lead	ppm	<1	0	2	---
Tin	ppm	<1	0	1	---
Aluminum	ppm	2	2	1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	7	19	17	---
Nickel	ppm	3	▲ 6	▲ 8	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1353	1547	1627	---
Magnesium	ppm	658	626	650	---
Zinc	ppm	845	871	903	---
Phosphorus	ppm	718	758	739	---
Barium	ppm	<1	0	0	---
Boron	ppm	52	79	52	---

Depot: DUNBEL
Unique No: 10701746
Signed: Don Baldrige
Report Date: 21 Oct 2023



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GRAPHS

