



CONSTRUCTION EQUIPMENT

SPM673863-10 VOLVO A45G 353134 - DIESEL ENGINE



Sample No: VCP437770
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM673863-10



SAMPLE INFORMATION

Sample Number	VCP437770	VCP439004	VCP426567	---
Sample Date	14 Feb 2024	29 Dec 2023	01 Sep 2023	---
Machine Hours	1508	4309	1286	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	11.8	---
Base Number (BN)	mg KOH/g	9.4	9.6	7.4	---
Oxidation (PA)	%	80	79	74	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.4	0.5	---
Nitration (PA)	%	79	61	72	---
Sulfation (PA)	%	62	62	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.3	4.4	---
Silicon	ppm	6	5	12	---
Sodium	ppm	2	2	3	---
Potassium	ppm	0	0	1	---



WEAR METALS

Iron	ppm	14	10	18	---
Copper	ppm	26	19	101	---
Lead	ppm	<1	<1	2	---
Tin	ppm	<1	1	3	---
Aluminum	ppm	2	3	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	54	51	57	---
Nickel	ppm	10	1	10	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1774	1646	1871	---
Magnesium	ppm	532	503	441	---
Zinc	ppm	1175	1088	1131	---
Phosphorus	ppm	970	924	899	---
Barium	ppm	0	0	0	---
Boron	ppm	28	35	27	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Valve wear is indicated. All other 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.

Depot: VOLVO0090
Unique No: 10887545
Signed: Don Baldrige
Report Date: 22 Feb 2024



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GRAPHS

