



CONSTRUCTION EQUIPMENT

SPM647180-10 RYAN VOLVO A45G 352110 - DIESEL ENGINE



Sample No: VCP438918
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM647180-10 RYAN



SAMPLE INFORMATION

Sample Number	VCP438918	VCP412321	---	---
Sample Date	21 Dec 2023	13 Jun 2023	---	---
Machine Hours	4640	3817	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.6	---	---
Base Number (BN)	mg KOH/g	7.4	4.8	---	---
Oxidation (PA)	%	82	84	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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	---	---
Soot %	%	0.5	0.8	---	---
Nitration (PA)	%	91	90	---	---
Sulfation (PA)	%	61	72	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	1.0	<1.0	---	---
Silicon	ppm	5	7	---	---
Sodium	ppm	3	4	---	---
Potassium	ppm	2	2	---	---



WEAR METALS

Iron	ppm	13	25	---	---
Copper	ppm	2	8	---	---
Lead	ppm	3	2	---	---
Tin	ppm	2	2	---	---
Aluminum	ppm	3	4	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	67	64	---	---
Nickel	ppm	2	4	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1511	1304	---	---
Magnesium	ppm	556	980	---	---
Zinc	ppm	1145	1418	---	---
Phosphorus	ppm	994	1074	---	---
Barium	ppm	0	0	---	---
Boron	ppm	19	4	---	---

Depot: VOLVO0090
Unique No: 10857568
Signed: Wes Davis
Report Date: 02 Feb 2024



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GRAPHS

