



CONSTRUCTION EQUIPMENT

VOLVO EC250 316049 - DIESEL ENGINE



Sample No: VCP436599
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP436599	VCP401366	VCP355211	---
Sample Date	21 Dec 2023	31 Aug 2023	19 Jun 2022	---
Machine Hours	3839	3279	1592	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.9	12.5	---
Base Number (BN)	mg KOH/g	10.2	9.9	9.7	---
Oxidation (PA)	%	79	82	80	---

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 %	%	0.2	0.3	0.2	---
Nitration (PA)	%	53	64	61	---
Sulfation (PA)	%	60	61	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	20	5	---
Sodium	ppm	<1	4	2	---
Potassium	ppm	7	11	5	---



WEAR METALS

Iron	ppm	13	28	9	---
Copper	ppm	2	5	7	---
Lead	ppm	0	<1	0	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	3	6	3	---
Chromium	ppm	<1	2	<1	---
Molybdenum	ppm	52	51	52	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	<1	1	---
Manganese	ppm	0	1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1642	1896	1638	---
Magnesium	ppm	509	560	510	---
Zinc	ppm	1094	1183	1093	---
Phosphorus	ppm	906	924	860	---
Barium	ppm	0	0	0	---
Boron	ppm	44	30	35	---

Depot: VOLVO0090
Unique No: 10806375
Signed: Wes Davis
Report Date: 28 Dec 2023



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GRAPHS

