



CONSTRUCTION EQUIPMENT

X49138 TADANO GR550 542078 - DIESEL ENGINE



Sample No: VCP442631
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X49138



SAMPLE INFORMATION

Sample Number	VCP442631	VCP432820	VCP391124	---
Sample Date	19 Jun 2024	02 Oct 2023	29 Nov 2022	---
Machine Hours	1813	1292	521	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	MARGINAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.4	13.4	---
Base Number (BN)	mg KOH/g	9.2	7.8	8.3	---
Oxidation (PA)	%	86	90	71	---

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	0.2	0.1	---
Nitration (PA)	%	72	81	73	---
Sulfation (PA)	%	62	63	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	3.3	<1.0	---
Silicon	ppm	8	12	47	---
Sodium	ppm	3	4	3	---
Potassium	ppm	0	<1	2	---



WEAR METALS

Iron	ppm	16	18	30	---
Copper	ppm	13	58	77	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	1	---
Aluminum	ppm	8	7	7	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	41	43	64	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	2	8	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1813	1709	1865	---
Magnesium	ppm	522	525	396	---
Zinc	ppm	1190	1213	1233	---
Phosphorus	ppm	998	973	1038	---
Barium	ppm	0	0	8	---
Boron	ppm	37	31	107	---

Depot: VOLVO6244
Unique No: 11090609
Signed: Jonathan Hester
Report Date: 25 Jun 2024



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GRAPHS

