



CONSTRUCTION EQUIPMENT

X18530 APAC BAILEY VOLVO A40G 353 137 - DIESEL ENGINE



Sample No: VCP443673
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X18530 APAC BAILEY



SAMPLE INFORMATION

Sample Number	VCP443673	VCP428614	VCP431696	---
Sample Date	10 May 2024	14 Feb 2024	08 Nov 2023	---
Machine Hours	3500	2932	2478	---
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	12.3	12.4	12.5	---
Base Number (BN)	mg KOH/g	9.5	10.0	9.6	---
Oxidation (PA)	%	81	80	82	---

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	0.2	---
Nitration (PA)	%	67	58	59	---
Sulfation (PA)	%	62	63	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	8	9	---
Sodium	ppm	19	0	<1	---
Potassium	ppm	3	1	<1	---



WEAR METALS

Iron	ppm	8	8	7	---
Copper	ppm	6	22	3	---
Lead	ppm	<1	<1	2	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	4	4	2	---
Chromium	ppm	<1	<1	0	---
Molybdenum	ppm	42	46	41	---
Nickel	ppm	<1	9	1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1886	1546	1642	---
Magnesium	ppm	517	495	518	---
Zinc	ppm	1136	1069	1133	---
Phosphorus	ppm	989	936	976	---
Barium	ppm	0	10	0	---
Boron	ppm	34	60	44	---

Depot: VOLVO8771
Unique No: 11074845
Signed: Sean Felton
Report Date: 14 Jun 2024



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GRAPHS

