



CONSTRUCTION EQUIPMENT

717204 RUBY RECYCLIN KOMATSU WA270 81496 - DIESEL ENGINE



Sample No: VCP452668
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 717204 RUBY RECYCLIN



SAMPLE INFORMATION

Sample Number	VCP452668	VCP431410	VCP402847	---
Sample Date	11 Jun 2024	26 Sep 2023	24 Mar 2023	---
Machine Hours	6274	4491	3262	---
Oil Hours	500	500	1800	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.7	12.4	13.6	---
Base Number (BN)	mg KOH/g	9.1	8.9	3.8	---
Oxidation (PA)	%	59	67	119	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 %	%	0.1	0.5	0.6	---
Nitration (PA)	%	42	76	120	---
Sulfation (PA)	%	52	54	84	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	0.8	5.6	<1.0	---
Silicon	ppm	5	4	9	---
Sodium	ppm	2	<1	2	---
Potassium	ppm	4	0	2	---



WEAR METALS

Iron	ppm	<1	12	65	---
Copper	ppm	0	3	20	---
Lead	ppm	0	0	0	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	2	0	5	---
Chromium	ppm	0	<1	3	---
Molybdenum	ppm	56	59	64	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1766	1014	1714	---
Magnesium	ppm	452	948	462	---
Zinc	ppm	1326	1222	1229	---
Phosphorus	ppm	1134	964	990	---
Barium	ppm	0	0	2	---
Boron	ppm	124	0	29	---

Depot: VOLVO2990
Unique No: 11088269
Signed: Wes Davis
Report Date: 24 Jun 2024



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GRAPHS

