



CONSTRUCTION EQUIPMENT

SW1020059 SUNLAND VOLVO DD140C 290070 - DIESEL ENGINE



Sample No: VCP397621
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1020059 SUNLAND



SAMPLE INFORMATION

Sample Number	VCP397621	VCP355329	VCP303303	---
Sample Date	15 Jun 2023	15 Oct 2022	26 Oct 2021	---
Machine Hours	2539	1905	1098	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.3	12.3	12.6	---
Base Number (BN)	mg KOH/g	8.5	11.5	---	---
Oxidation (PA)	%	71	91	90	---

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)	%	66	73	68	---
Sulfation (PA)	%	54	65	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	1.2	<1.0	---
Silicon	ppm	6	12	15	---
Sodium	ppm	2	<1	3	---
Potassium	ppm	1	0	2	---



WEAR METALS

Iron	ppm	31	64	40	---
Copper	ppm	5	5	12	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	2	2	---
Aluminum	ppm	23	31	25	---
Chromium	ppm	2	3	3	---
Molybdenum	ppm	58	42	40	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1139	1852	1594	---
Magnesium	ppm	937	542	508	---
Zinc	ppm	1219	1155	853	---
Phosphorus	ppm	991	961	736	---
Barium	ppm	0	0	0	---
Boron	ppm	4	49	42	---

Depot: VOLVO6174
Unique No: 10525531
Signed: Wes Davis
Report Date: 24 Jun 2023



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GRAPHS

