



CONSTRUCTION EQUIPMENT

TONY ALVAREZ LAND CL VOLVO L70H 622496 - DIESEL ENGINE



Sample No: VCP421362
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TONY ALVAREZ LAND CL



SAMPLE INFORMATION

Sample Number	VCP421362	VCP344091	VCP305916	VCP325130
Sample Date	26 Sep 2023	24 Jan 2022	30 Nov 2021	25 Jun 2021
Machine Hours	10811	6746	6387	5692
Oil Hours	0	356	0	192
Oil Changed	Not Changd	Not Changd	N/A	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	12.9	15.1
Base Number (BN)	mg KOH/g	9.0	10.0	10.9	---
Oxidation (PA)	%	57	63	76	65



CONTAMINATION

Soot %	%	0.3	0.2	0.2	0.3
Nitration (PA)	%	50	56	54	72
Sulfation (PA)	%	51	56	60	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	11	39	4
Sodium	ppm	2	4	15	4
Potassium	ppm	<1	0	10	<1



WEAR METALS

Iron	ppm	6	16	27	7
Copper	ppm	<1	1	4	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	2	3	<1
Aluminum	ppm	4	1	3	1
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	62	59	42	57
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	2	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1673	1822	1857	1326
Magnesium	ppm	384	444	445	851
Zinc	ppm	1226	1284	1050	1213
Phosphorus	ppm	1022	1056	964	999
Barium	ppm	0	0	0	0
Boron	ppm	<1	5	30	5

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.

Depot: VOLVO0090
Unique No: 10670934
Signed: Wes Davis
Report Date: 29 Sep 2023



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GRAPHS

