



CONSTRUCTION EQUIPMENT

SWA309003 VOLVO L90F 25703 - DIESEL ENGINE



Sample No: VCP418265
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA309003



SAMPLE INFORMATION

Sample Number	VCP418265	VCP370771	VCP255788	VCP230771
Sample Date	18 Jul 2023	26 Oct 2022	18 Dec 2019	10 May 2018
Machine Hours	8719	8396	7112	5553
Oil Hours	0	0	500	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.7	13.5	14.08
Base Number (BN)	mg KOH/g	10.3	8.1	---	---
Oxidation (PA)	%	80	103	86	44



CONTAMINATION

Soot %	%	0.3	1	0.8	0.3
Nitration (PA)	%	58	104	83	50
Sulfation (PA)	%	61	72	63	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	3
Sodium	ppm	2	2	4	13
Potassium	ppm	0	2	<1	2



WEAR METALS

Iron	ppm	9	30	22	18
Copper	ppm	2	5	4	5
Lead	ppm	0	1	<1	0
Tin	ppm	<1	1	<1	0
Aluminum	ppm	1	3	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	42	36	2
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1859	1808	1774	2567
Magnesium	ppm	562	489	434	43
Zinc	ppm	1195	957	871	1149
Phosphorus	ppm	991	717	782	927
Barium	ppm	<1	2	0	0
Boron	ppm	67	28	24	9

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: VOLV00142
Unique No: 10566561
Signed: Wes Davis
Report Date: 24 Jul 2023



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GRAPHS

