



CONSTRUCTION EQUIPMENT

SWA142888 VOLVO L110H 10425 - DIESEL ENGINE



Sample No: VCP370088
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA142888



SAMPLE INFORMATION

Sample Number	VCP370088	VCP326424	VCP305275	VCP292068
Sample Date	06 Jan 2023	08 Oct 2021	11 Mar 2021	30 Oct 2020
Machine Hours	9253	8490	7265	6382
Oil Hours	0	0	0	0
Oil Changed	Changed	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	13.9	13.8	14.2	14.7
Base Number (BN)	mg KOH/g	9.6	---	---	---
Oxidation (PA)	%	89	98	105	97

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	1.2	1	1.4
Nitration (PA)	%	85	102	102	104
Sulfation (PA)	%	64	70	73	74
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	4	7
Sodium	ppm	2	4	4	4
Potassium	ppm	0	0	<1	2

WEAR METALS

Iron	ppm	19	26	32	37
Copper	ppm	2	2	4	5
Lead	ppm	1	2	3	5
Tin	ppm	1	2	2	4
Aluminum	ppm	10	10	7	10
Chromium	ppm	<1	1	1	1
Molybdenum	ppm	38	49	41	26
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1

ADDITIVES

Calcium	ppm	1849	1803	1808	1583
Magnesium	ppm	474	559	588	678
Zinc	ppm	1242	1259	1168	939
Phosphorus	ppm	987	978	966	809
Barium	ppm	0	0	0	8
Boron	ppm	39	42	33	20

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: VOLVO0142
Unique No: 10286406
Signed: Sean Felton
Report Date: 13 Jan 2023



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GRAPHS

