



CONSTRUCTION EQUIPMENT

742439 VOLVO A30G 742439 - DIESEL ENGINE



Sample No: VCP423039
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 742439



SAMPLE INFORMATION

Sample Number	VCP423039	VCP402024	VCP376903	VCP348394
Sample Date	03 Aug 2023	14 May 2023	30 Aug 2022	04 Feb 2022
Machine Hours	0	0	5058	4895
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Not Changd	Changed
Sample Status	NORMAL	SEVERE	ABNORMAL	ABNORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	13.6	12.3	▲ 11.8	▲ 11.5
Base Number (BN)	mg KOH/g	10.4	10.7	12.1	10.5
Oxidation (PA)	%	73	80	82	82

CONTAMINATION

Soot %	%	0.1	0.1	0.2	0.3
Nitration (PA)	%	39	59	63	66
Sulfation (PA)	%	58	63	60	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.5	▲ 4.5	▲ 5.9
Silicon	ppm	4	91	8	4
Sodium	ppm	<1	11	<1	<1
Potassium	ppm	3	8	0	0

WEAR METALS

Iron	ppm	1	50	6	7
Copper	ppm	0	18	4	<1
Lead	ppm	0	1	<1	0
Tin	ppm	0	2	<1	<1
Aluminum	ppm	<1	▲ 33	<1	1
Chromium	ppm	<1	2	<1	<1
Molybdenum	ppm	33	46	40	43
Nickel	ppm	<1	2	<1	0
Titanium	ppm	0	2	<1	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1402	1792	1495	1622
Magnesium	ppm	457	468	445	472
Zinc	ppm	817	1129	1009	955
Phosphorus	ppm	660	921	825	823
Barium	ppm	0	0	<1	0
Boron	ppm	70	41	69	50

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: VOLVO4486
Unique No: 10588456
Signed: Don Baldrige
Report Date: 07 Aug 2023



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GRAPHS

