



CONSTRUCTION EQUIPMENT

S50401798 IAA ANAHEI VOLVO L60G 1596 - DIESEL ENGINE



Sample No: VCP415371
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50401798 IAA ANAHEI



SAMPLE INFORMATION

Sample Number	VCP415371	VCP399607	VCP322511	VCP303634
Sample Date	10 Oct 2023	17 Feb 2023	04 Jun 2021	23 Apr 2021
Machine Hours	14409	0	12628	12193
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.9	12.9	12.8
Base Number (BN)	mg KOH/g	10.3	9.8	---	---
Oxidation (PA)	%	81	81	82	86

CONTAMINATION

Soot %	%	0.2	0.3	0.1	0.2
Nitration (PA)	%	58	63	46	58
Sulfation (PA)	%	59	59	64	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	6	5
Sodium	ppm	2	0	2	3
Potassium	ppm	1	<1	<1	1

WEAR METALS

Iron	ppm	5	4	4	4
Copper	ppm	0	0	<1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	▲ 18	6	2	4
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	36	40	41	39
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1537	1676	1685	1631
Magnesium	ppm	480	468	507	487
Zinc	ppm	1068	1133	1139	1080
Phosphorus	ppm	959	957	931	917
Barium	ppm	0	<1	0	0
Boron	ppm	42	40	78	65

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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: 10724525
Signed: Sean Felton
Report Date: 03 Nov 2023



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VOLVO GRAPHS

