



CONSTRUCTION EQUIPMENT

VOLVO A40G 352489 - DIESEL ENGINE



Sample No: VCP433533
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP433533	VCP343148	VCP323370	VCP323373
Sample Date	13 Dec 2023	04 Nov 2021	28 Jun 2021	27 Jun 2021
Machine Hours	6270	0	1606	1374
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	12.6	12.8
Base Number (BN)	mg KOH/g	9.4	---	---	---
Oxidation (PA)	%	81	85	88	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	68	77	73	72
Sulfation (PA)	%	60	64	70	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	16	7	5
Sodium	ppm	1	2	2	2
Potassium	ppm	1	<1	0	0



WEAR METALS

Iron	ppm	4	10	10	8
Copper	ppm	<1	7	39	2
Lead	ppm	0	1	2	1
Tin	ppm	<1	2	2	1
Aluminum	ppm	2	8	1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	48	46	42	42
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1608	1699	1600	1617
Magnesium	ppm	518	489	474	478
Zinc	ppm	1093	1045	1088	1084
Phosphorus	ppm	908	916	901	908
Barium	ppm	0	0	0	0
Boron	ppm	32	31	36	40

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 acceptable for the time in service.

Depot: VOLVO0090
Unique No: 10795618
Signed: Don Baldrige
Report Date: 21 Dec 2023



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GRAPHS

