



CONSTRUCTION EQUIPMENT

SWA428779-10 VOLVO A40G 352497 - DIESEL ENGINE



Sample No: VCP426734
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA428779-10



SAMPLE INFORMATION

Sample Number	VCP426734	VCP322795	VCP324316	VCP306252
Sample Date	08 Dec 2023	28 Jun 2021	04 May 2021	03 Feb 2021
Machine Hours	5137	1432	1085	510
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	11.9	12.5	12.5	▲ 10.8
Base Number (BN)	mg KOH/g	7.8	---	---	---
Oxidation (PA)	%	65	86	87	89

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 condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	74	66	73	68
Sulfation (PA)	%	55	67	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.2	<1.0	<1.0	0.8
Silicon	ppm	5	5	8	28
Sodium	ppm	1	2	6	2
Potassium	ppm	<1	0	3	0



WEAR METALS

Iron	ppm	6	6	9	21
Copper	ppm	19	2	4	24
Lead	ppm	0	1	1	2
Tin	ppm	<1	<1	2	2
Aluminum	ppm	3	0	0	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	50	64	45	38
Nickel	ppm	3	<1	<1	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	10	<1	0
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1553	1583	1641	1752
Magnesium	ppm	643	469	493	497
Zinc	ppm	1171	1027	1071	1086
Phosphorus	ppm	971	901	939	934
Barium	ppm	0	0	0	<1
Boron	ppm	23	78	91	34

Depot: VOLVO0090
Unique No: 10789218
Signed: Angela Borella
Report Date: 19 Dec 2023



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GRAPHS

