



CONSTRUCTION EQUIPMENT

VOLVO A45G 342023 - DIESEL ENGINE



Sample No: VCP302319
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP302319	VCP277320	VCP261746	VCP256679
Sample Date	06 Jan 2021	04 Aug 2020	19 Nov 2019	14 Sep 2019
Machine Hours	5850	5363	4421	4013
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.6	13.3	12.8
Oxidation (PA)	%	80	73	71	79



CONTAMINATION

Soot %	%	0.3	0.2	0.3	0.3
Nitration (PA)	%	59	63	55	54
Sulfation (PA)	%	63	60	58	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	5
Sodium	ppm	2	2	2	4
Potassium	ppm	0	<1	<1	0

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.



WEAR METALS

Iron	ppm	6	5	4	4
Copper	ppm	2	2	2	3
Lead	ppm	<1	2	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	3	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	38	32	26	35
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1727	1563	1451	1594
Magnesium	ppm	530	571	508	478
Zinc	ppm	1092	1066	744	800
Phosphorus	ppm	938	877	653	705
Barium	ppm	0	0	0	0
Boron	ppm	44	48	44	35

Depot: VOLVO0090
Unique No: 9319424
Signed: Wes Davis
Report Date: 12 Jan 2021



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VOLVO GRAPHS

