



CONSTRUCTION EQUIPMENT

261274 VOLVO L90G 3954 - DIESEL ENGINE



Sample No: VCP252273
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 261274



SAMPLE INFORMATION

Sample Number	VCP252273	VCP260733	VCP240877	VCE209380
Sample Date	22 Oct 2020	24 Jan 2020	04 Oct 2019	16 Dec 2013
Machine Hours	13106	12067	11564	395
Oil Hours	0	500	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	14.6	13.5	13.3	11.2
Oxidation (PA)	%	53	85	83	61



CONTAMINATION

Water	%	---	0.010	---	---
Soot %	%	0	0.1	0	0.1
Nitration (PA)	%	50	66	62	64
Sulfation (PA)	%	52	72	67	61
Glycol	%	NEG	0.0	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	33
Sodium	ppm	3	2	2	6
Potassium	ppm	2	<1	<1	3

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	4	9	6	52
Copper	ppm	<1	<1	<1	9
Lead	ppm	0	0	0	3
Tin	ppm	0	<1	0	1
Aluminum	ppm	2	6	3	13
Chromium	ppm	<1	<1	<1	3
Molybdenum	ppm	5	40	41	41
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	4
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1265	1681	1674	1247
Magnesium	ppm	683	519	522	862
Zinc	ppm	787	900	907	1149
Phosphorus	ppm	664	757	762	933
Barium	ppm	0	<1	0	<1
Boron	ppm	81	40	38	56

Depot: VOLVO3908
Unique No: 5123211
Signed: Wes Davis
Report Date: 27 Oct 2020



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GRAPHS

