



CONSTRUCTION EQUIPMENT

764993 VOLVO L90H 624974 - DIESEL ENGINE



Sample No: VCP344064
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 764993



SAMPLE INFORMATION

Sample Number	VCP344064	VCP316398	VCP323489	VCP308628
Sample Date	10 Nov 2021	12 Aug 2021	18 Jun 2021	21 Apr 2021
Machine Hours	4883	4475	4127	3763
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	13.4	13.0	13.3	13.5
Oxidation (PA)	%	76	73	81	82



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.5	0.5
Nitration (PA)	%	58	51	58	58
Sulfation (PA)	%	60	60	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	3
Sodium	ppm	4	2	4	3
Potassium	ppm	<1	0	<1	<1

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	8	6	8	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	9	6	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	39	50	55	43
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1818	1779	1673	1671
Magnesium	ppm	487	539	512	504
Zinc	ppm	1054	1146	1077	1056
Phosphorus	ppm	1007	987	930	950
Barium	ppm	0	0	0	0
Boron	ppm	40	56	69	45

Depot: VOLVO0090
Unique No: 9752639
Signed: Wes Davis
Report Date: 24 Nov 2021



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VOLVO GRAPHS

