



CONSTRUCTION EQUIPMENT

685951 VOLVO L90H 624974 - DIESEL ENGINE



Sample No: VCP316398
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 685951



SAMPLE INFORMATION

Sample Number	VCP316398	VCP323489	VCP308628	VCP305862
Sample Date	12 Aug 2021	18 Jun 2021	21 Apr 2021	17 Feb 2021
Machine Hours	4475	4127	3763	3381
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	13.0	13.3	13.5	13.4
Oxidation (PA)	%	73	81	82	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.5	0.5	0.4
Nitration (PA)	%	51	58	58	55
Sulfation (PA)	%	60	66	65	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	3	6
Sodium	ppm	2	4	3	2
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	8	8	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	6	2	1	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	50	55	43	42
Nickel	ppm	0	<1	<1	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1779	1673	1671	1789
Magnesium	ppm	539	512	504	532
Zinc	ppm	1146	1077	1056	1096
Phosphorus	ppm	987	930	950	953
Barium	ppm	0	0	0	<1
Boron	ppm	56	69	45	44

Depot: VOLVO0090
Unique No: 9622724
Signed: Wes Davis
Report Date: 18 Aug 2021



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GRAPHS

