



CONSTRUCTION EQUIPMENT

VOLVO L90H 624974 - DIESEL ENGINE



Sample No: VCP245466
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP245466	VCP266151	VCP265182	VCP249436
Sample Date	13 Jul 2020	20 Mar 2020	12 Dec 2019	04 Sep 2019
Machine Hours	2115	1612	1056	545
Oil Hours	0	250	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.6	13.7	13.0
Oxidation (PA)	%	70	63	61	77



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.3	0.4
Nitration (PA)	%	58	60	58	53
Sulfation (PA)	%	59	56	54	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	8
Sodium	ppm	3	3	3	3
Potassium	ppm	0	3	0	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	10	7	12
Copper	ppm	<1	<1	<1	1
Lead	ppm	1	0	<1	0
Tin	ppm	0	7	0	0
Aluminum	ppm	5	3	3	7
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	30	19	17	33
Nickel	ppm	<1	1	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1516	1525	1559	1525
Magnesium	ppm	574	641	672	466
Zinc	ppm	934	872	830	802
Phosphorus	ppm	852	815	685	686
Barium	ppm	0	0	0	0
Boron	ppm	56	63	61	30

Depot: VOLVO0090
Unique No: 9102843
Signed: Wes Davis
Report Date: 20 Jul 2020



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GRAPHS

