



CONSTRUCTION EQUIPMENT

246361 VOLVO L110H 631424 - DIESEL ENGINE



Sample No: VCP272819
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 246361



SAMPLE INFORMATION

Sample Number	VCP272819	VCP221954	VCP260684	VCP260412
Sample Date	24 Jun 2020	24 Apr 2020	23 Dec 2019	19 Nov 2019
Machine Hours	7681	7064	6155	5575
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.3	13.9	12.6
Oxidation (PA)	%	84	82	67	80



CONTAMINATION

Soot %	%	0.7	0.4	0.3	0.4
Nitration (PA)	%	77	72	77	72
Sulfation (PA)	%	80	74	65	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	7	18
Sodium	ppm	<1	2	2	3
Potassium	ppm	<1	<1	2	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	17	15	15	37
Copper	ppm	4	3	8	18
Lead	ppm	<1	<1	1	3
Tin	ppm	2	1	2	4
Aluminum	ppm	5	5	4	6
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	40	38	15	37
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	<1	1
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1658	1649	1489	1469
Magnesium	ppm	518	532	683	637
Zinc	ppm	1120	1058	867	968
Phosphorus	ppm	957	888	762	837
Barium	ppm	0	<1	<1	2
Boron	ppm	28	39	52	32

Depot: CASKIT
Unique No: 5082676
Signed: Wes Davis
Report Date: 28 Jul 2020



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VOLVO GRAPHS

