



CONSTRUCTION EQUIPMENT

VOLVO L110H 631435 - DIESEL ENGINE



Sample No: VCP273486
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP273486	VCP272823	VCP221944	VCP252287
Sample Date	13 Oct 2020	18 Jun 2020	22 Apr 2020	11 Mar 2020
Machine Hours	8500	7447	7100	6715
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	12.7	13.3	12.8	13.5
Oxidation (PA)	%	100	64	83	73



CONTAMINATION

Soot %	%	0.8	0.2	0.2	0.3
Nitration (PA)	%	94	84	74	88
Sulfation (PA)	%	69	70	76	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	4	5	5
Sodium	ppm	4	2	2	6
Potassium	ppm	<1	2	<1	2

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	27	8	10	17
Copper	ppm	7	1	2	4
Lead	ppm	4	0	<1	2
Tin	ppm	2	<1	<1	1
Aluminum	ppm	8	3	4	5
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	38	10	36	9
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1715	1494	1638	1470
Magnesium	ppm	539	716	552	752
Zinc	ppm	1156	901	1094	865
Phosphorus	ppm	917	811	954	759
Barium	ppm	0	0	<1	0
Boron	ppm	20	55	39	45

Depot: CASKIT
Unique No: 5124706
Signed: Wes Davis
Report Date: 04 Nov 2020



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GRAPHS

