



CONSTRUCTION EQUIPMENT

388099 VOLVO L110H 631781 - DIESEL ENGINE



Sample No: VCP392797
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 388099



SAMPLE INFORMATION

Sample Number	VCP392797	WC381729	VCP352456	VCP333528
Sample Date	13 Dec 2023	01 May 2023	11 Oct 2022	26 Jan 2022
Machine Hours	3483	2937	2445	1745
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.3	12.6	13.2	13.1
Oxidation (PA)	%	73	82	84	37



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0	0.3	0
Nitration (PA)	%	54	57	64	33
Sulfation (PA)	%	59	61	66	42
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	6
Sodium	ppm	2	2	2	2
Potassium	ppm	0	0	0	2

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



WEAR METALS

Iron	ppm	13	3	14	7
Copper	ppm	2	<1	2	3
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	6	1	6	4
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	43	40	40	37
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1709	1727	1730	1607
Magnesium	ppm	514	496	516	586
Zinc	ppm	1098	1065	1087	1125
Phosphorus	ppm	935	973	1010	961
Barium	ppm	<1	0	0	0
Boron	ppm	39	44	44	52

Depot: VOLV00228
Unique No: 5697155
Signed: Wes Davis
Report Date: 19 Dec 2023



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GRAPHS

