



CONSTRUCTION EQUIPMENT

388059 VOLVO L110G 8316 - DIESEL ENGINE



Sample No: VCP392857
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 388059



SAMPLE INFORMATION

Sample Number	VCP392857	VCP391792	WC353410	VCP347450
Sample Date	15 Dec 2023	24 Jul 2023	01 May 2023	28 Mar 2022
Machine Hours	24725	23664	23005	21017
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.8	13.8	14.5
Oxidation (PA)	%	73	84	86	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.8	0.7	1
Nitration (PA)	%	56	68	69	78
Sulfation (PA)	%	60	68	66	72
Glycol	%	NEG	0.0	0.0	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	5	6
Sodium	ppm	11	17	26	49
Potassium	ppm	4	5	8	16

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	20	22	26	28
Copper	ppm	<1	1	1	1
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	4	7	6
Chromium	ppm	<1	1	2	1
Molybdenum	ppm	44	45	44	42
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1782	1764	1877	1813
Magnesium	ppm	551	550	534	532
Zinc	ppm	1160	1109	982	1195
Phosphorus	ppm	1018	1006	911	1047
Barium	ppm	0	0	0	0
Boron	ppm	30	24	30	21

Depot: VOLVO0228
Unique No: 5697947
Signed: Wes Davis
Report Date: 22 Dec 2023



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GRAPHS

