



CONSTRUCTION EQUIPMENT

399200 VOLVO L90F 28085 - DIESEL ENGINE



Sample No: VCP450192
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 399200



SAMPLE INFORMATION

Sample Number	VCP450192	VCP391553	VCP380898	VCP204313
Sample Date	22 Mar 2024	13 Jun 2023	09 Dec 2022	26 Sep 2017
Machine Hours	15004	14275	13590	5966
Oil Hours	500	0	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	14.0	13.9	14.2	14.1
Oxidation (PA)	%	96	94	69	70



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.5	0.2	0.2
Nitration (PA)	%	90	84	66	81
Sulfation (PA)	%	67	66	61	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	4	5
Sodium	ppm	3	3	2	5
Potassium	ppm	<1	<1	0	<1

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	17	16	10	10
Copper	ppm	2	1	<1	3
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	2	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	46	56	47
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1800	1726	1163	1394
Magnesium	ppm	557	600	916	882
Zinc	ppm	1177	1174	1198	1168
Phosphorus	ppm	952	1043	1054	936
Barium	ppm	0	0	0	<1
Boron	ppm	29	33	10	29

Depot: VOLVO0228
Unique No: 5760409
Signed: Wes Davis
Report Date: 08 Apr 2024



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GRAPHS

