



CONSTRUCTION EQUIPMENT

374888 VOLVO L90H 623496 - DIESEL ENGINE



Sample No: VCP394566
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 374888



SAMPLE INFORMATION

Sample Number	VCP394566	VCP391957	VCP352734	VCP352667
Sample Date	14 Aug 2023	18 May 2023	15 Feb 2023	07 Nov 2022
Machine Hours	16588	16095	15524	15035
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	13.3	13.1	13.8	13.5
Oxidation (PA)	%	78	92	93	91

CONTAMINATION

Soot %	%	0.1	0.2	0	0.1
Nitration (PA)	%	61	75	73	72
Sulfation (PA)	%	63	64	70	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	5
Sodium	ppm	3	3	3	3
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	7	7	7	6
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	41	44	41
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1745	1767	1813	1742
Magnesium	ppm	532	519	535	515
Zinc	ppm	1129	1064	1118	1132
Phosphorus	ppm	1014	984	1043	1029
Barium	ppm	<1	0	0	0
Boron	ppm	31	33	39	31

Depot: VOLVO0228
Unique No: 5629441
Signed: Wes Davis
Report Date: 17 Aug 2023



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GRAPHS

