



CONSTRUCTION EQUIPMENT

371528 VOLVO L120H 632718 - DIESEL ENGINE



Sample No: VCP394700
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 371528



SAMPLE INFORMATION

Sample Number	VCP394700	VCP392196	VCP391971	VCP353101
Sample Date	11 Aug 2023	05 Jun 2023	24 Apr 2023	10 Mar 2023
Machine Hours	9412	8691	8229	7448
Oil Hours	500	500	0	690
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.5	14.1	14.1
Oxidation (PA)	%	82	84	85	45



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.8	0.6	0.7	0.2
Nitration (PA)	%	64	57	65	43
Sulfation (PA)	%	68	66	66	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	4	5
Sodium	ppm	3	2	2	2
Potassium	ppm	<1	<1	0	<1

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	16	14	16	21
Copper	ppm	1	<1	<1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	7	6	6	7
Chromium	ppm	1	<1	1	1
Molybdenum	ppm	41	39	41	42
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1699	1725	1847	1841
Magnesium	ppm	514	483	516	521
Zinc	ppm	1094	1043	1117	1129
Phosphorus	ppm	986	966	1001	1045
Barium	ppm	0	0	0	0
Boron	ppm	31	39	38	39

Depot: VOLVO9652
Unique No: 5628926
Signed: Wes Davis
Report Date: 04 Jan 2024



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GRAPHS

