



CONSTRUCTION EQUIPMENT

388866 VOLVO L120H 633291 - DIESEL ENGINE



Sample No: VCP392826
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 388866



SAMPLE INFORMATION

Sample Number	VCP392826	VCP394281	VCP353399	VCP392201
Sample Date	05 Dec 2023	13 Oct 2023	25 Aug 2023	23 Jun 2023
Machine Hours	3105	2543	2143	1654
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
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 RED DEER COUNTY, AB
 CA T4S 2L4
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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	13.1	13.4
Oxidation (PA)	%	81	79	79	82

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.4	0.4
Nitration (PA)	%	53	50	53	54
Sulfation (PA)	%	64	63	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	6	5
Sodium	ppm	2	3	2	3
Potassium	ppm	<1	0	<1	0

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	11	13	17	18
Copper	ppm	2	2	3	4
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	3	2	3	6
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	41	42	41	38
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1716	1700	1696	1693
Magnesium	ppm	509	508	517	494
Zinc	ppm	1080	1082	1090	1073
Phosphorus	ppm	932	915	986	949
Barium	ppm	0	<1	0	<1
Boron	ppm	42	44	40	40

Depot: VOLVO9652
Unique No: 5697431
Signed: Wes Davis
Report Date: 20 Dec 2023

VOLVO **GRAPHS**

