



CONSTRUCTION EQUIPMENT

8000394722 VOLVO L120H 633291 - DIESEL ENGINE



Sample No: VCP380414
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000394722



SAMPLE INFORMATION

Sample Number	VCP380414	VCP392826	VCP394281	VCP353399
Sample Date	09 Feb 2024	05 Dec 2023	13 Oct 2023	25 Aug 2023
Machine Hours	3607	3105	2543	2143
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
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 RED DEER COUNTY, AB
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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.2	13.1	13.1
Oxidation (PA)	%	80	81	79	79

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.4	0.3	0.4
Nitration (PA)	%	52	53	50	53
Sulfation (PA)	%	63	64	63	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	6
Sodium	ppm	2	2	3	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	8	11	13	17
Copper	ppm	2	2	2	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	3	2	3
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	40	41	42	41
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1707	1716	1700	1696
Magnesium	ppm	501	509	508	517
Zinc	ppm	1055	1080	1082	1090
Phosphorus	ppm	930	932	915	986
Barium	ppm	0	0	<1	0
Boron	ppm	47	42	44	40

Depot: VOLVO9652
Unique No: 5724400
Signed: Wes Davis
Report Date: 13 Feb 2024



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GRAPHS

