



CONSTRUCTION EQUIPMENT

IMPACT AUTO 396842 VOLVO L90H 625974 - DIESEL ENGINE



Sample No: VCP450166
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 396842



SAMPLE INFORMATION

Sample Number	VCP450166	VCP394027	VCP352624	VCP382326
Sample Date	04 Mar 2024	14 Dec 2023	25 Aug 2023	02 May 2023
Machine Hours	4543	4045	3512	3000
Oil Hours	500	500	500	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT-EDMONTON

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	13.2	13.4
Oxidation (PA)	%	84	83	81	85



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.3
Nitration (PA)	%	55	58	61	68
Sulfation (PA)	%	63	63	64	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	5	5
Sodium	ppm	2	3	3	3
Potassium	ppm	<1	0	<1	<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	62	84	87	116
Copper	ppm	<1	<1	1	1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	3	3	4
Chromium	ppm	<1	1	2	2
Molybdenum	ppm	42	44	42	45
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1718	1707	1678	1869
Magnesium	ppm	524	529	545	544
Zinc	ppm	1061	1077	1088	1106
Phosphorus	ppm	923	918	959	1012
Barium	ppm	0	<1	<1	<1
Boron	ppm	39	33	33	32

Depot: VOLVO3908
Unique No: 5737017
Signed: Wes Davis
Report Date: 05 Mar 2024



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GRAPHS

