



CONSTRUCTION EQUIPMENT

IMPACT AUTO 406410 VOLVO L90H 625974 - DIESEL ENGINE



Sample No: VCP450304
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 406410



SAMPLE INFORMATION

Sample Number	VCP450304	VCP450166	VCP394027	VCP352624
Sample Date	31 May 2024	04 Mar 2024	14 Dec 2023	25 Aug 2023
Machine Hours	5000	4543	4045	3512
Oil Hours	0	500	500	500
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	12.8	13.1	13.2	13.2
Oxidation (PA)	%	82	84	83	81



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	56	55	58	61
Sulfation (PA)	%	62	63	63	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	5	5
Sodium	ppm	2	2	3	3
Potassium	ppm	0	<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	60	62	84	87
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	3	3	3
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	39	42	44	42
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1704	1718	1707	1678
Magnesium	ppm	504	524	529	545
Zinc	ppm	1052	1061	1077	1088
Phosphorus	ppm	885	923	918	959
Barium	ppm	0	0	<1	<1
Boron	ppm	35	39	33	33

Depot: VOLVO3908

Unique No: 5788740

Signed: Wes Davis

Report Date: 05 Jun 2024



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VOLVO GRAPHS

