



CONSTRUCTION EQUIPMENT

IMPACT AUTO 394833 VOLVO L90H 623902 - DIESEL ENGINE



Sample No: VCP392400
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 394833



SAMPLE INFORMATION

Sample Number	VCP392400	VCP394470	VCP352622	VCP352934
Sample Date	15 Feb 2024	04 Dec 2023	17 Oct 2023	01 Mar 2023
Machine Hours	10000	9563	9523	8528
Oil Hours	2000	50	500	500
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



STRONGCO EQUIPMENT-EDMONTON

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.1	10.6	13.1
Oxidation (PA)	%	84	80	73	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0.1	0
Nitration (PA)	%	54	41	53	61
Sulfation (PA)	%	63	61	57	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.1	8	<1.0
Silicon	ppm	4	6	4	4
Sodium	ppm	2	2	3	2
Potassium	ppm	<1	0	0	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	6	2	5	8
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	4	2	4	4
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	40	39	40	43
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1653	1541	1614	1826
Magnesium	ppm	489	476	485	517
Zinc	ppm	1044	1015	1038	1092
Phosphorus	ppm	899	863	891	1004
Barium	ppm	0	<1	<1	0
Boron	ppm	39	53	32	38

Depot: VOLVO3908
Unique No: 5733721
Signed: Wes Davis
Report Date: 20 Feb 2024



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GRAPHS

