



CONSTRUCTION EQUIPMENT

IMPACT AUTO 8-381488 VOLVO L-90-H 624436 - DIESEL ENGINE



Sample No: VCP383334
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 8-381488



SAMPLE INFORMATION

Sample Number	VCP383334	VCP380387	VCP392089	VCP382433
Sample Date	31 Oct 2023	25 Jul 2023	05 May 2023	01 Feb 2023
Machine Hours	8077	7552	7100	6528
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



STRONGCO EQUIPMENT INC.

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.5	12.9	13.3
Oxidation (PA)	%	83	82	84	86



CONTAMINATION

Soot %	%	0.4	0.3	0.3	0.1
Nitration (PA)	%	63	58	63	63
Sulfation (PA)	%	64	64	64	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	13	11	6
Sodium	ppm	3	3	3	3
Potassium	ppm	0	1	0	0



WEAR METALS

Iron	ppm	8	7	9	10
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	2	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	39	40	41
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1736	1694	1810	1807
Magnesium	ppm	505	501	527	502
Zinc	ppm	1105	1084	1134	1147
Phosphorus	ppm	941	972	1020	1014
Barium	ppm	<1	0	0	0
Boron	ppm	27	31	40	40

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.

Depot: SHEMIS
Unique No: 5671975
Signed: Wes Davis
Report Date: 08 Nov 2023



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GRAPHS

