



CONSTRUCTION EQUIPMENT

PRINCE VOLVO L90H 626620 - TRANSMISSION (AUTO)



Sample No: VCP431756
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: PRINCE



SAMPLE INFORMATION

Sample Number	VCP431756	VCP436063	VCP418306	VCP420273
Sample Date	26 Dec 2023	20 Sep 2023	30 Jun 2023	11 Apr 2023
Machine Hours	2127	1554	1057	514
Oil Hours	0	0	1057	514
Oil Changed	N/A	N/A	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 27.4	■ 26.2	■ 27.9	■ 27.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 15	■ 11	■ 14	■ 13
Sodium	ppm	■ 6	■ 6	■ 3	■ 4
Potassium	ppm	■ 2	■ 2	■ <1	■ 1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the fluid. The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.



WEAR METALS

Iron	ppm	▲ 261	▲ 234	▲ 182	■ 105
Copper	ppm	■ 11	■ 11	■ 8	■ 5
Lead	ppm	■ 0	■ <1	■ 0	■ 0
Tin	ppm	■ 0	■ <1	■ 0	■ 0
Aluminum	ppm	■ 2	■ 2	■ 2	■ <1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 0	■ 0	■ <1	■ <1
Nickel	ppm	■ <1	■ <1	■ 0	■ 0
Titanium	ppm	■ 0	■ 0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ 10	■ 10	■ 9	■ 8
Vanadium	ppm	■ 0	0	0	0



ADDITIVES

Calcium	ppm	▲ 73	■ 83	■ 83	■ 77
Magnesium	ppm	▲ 2	■ <1	■ 2	■ 3
Zinc	ppm	▲ 28	■ 69	■ 26	■ 24
Phosphorus	ppm	▲ 196	■ 175	■ 204	■ 192
Barium	ppm	■ 0	■ <1	■ <1	■ 0
Boron	ppm	■ 60	■ 36	■ 80	■ 85

Depot: VOLVO0093
Unique No: 10829908
Signed: Don Baldrige
Report Date: 14 Jan 2024



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GRAPHS

