



CONSTRUCTION EQUIPMENT

SWA391982 MOEN TRANS VOLVO L120H 632758 - DIESEL ENGINE



Sample No: VCP365455
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA391982 MOEN TRANS



SAMPLE INFORMATION

Sample Number	VCP365455	VCP404171	VCP379177	---
Sample Date	24 Oct 2023	14 Feb 2023	23 Jun 2022	---
Machine Hours	7565	5697	3981	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	SEVERE	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	5.4	15.3	14.9	---
Base Number (BN)	mg KOH/g	3.5	10.4	7.9	---
Oxidation (PA)	%	164	55	86	---

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN level is low. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Soot %	%	0.7	0.1	1.1	---
Nitration (PA)	%	83	43	89	---
Sulfation (PA)	%	85	50	68	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	49.1	<1.0	<1.0	---
Silicon	ppm	19	5	25	---
Sodium	ppm	4	0	2	---
Potassium	ppm	2	1	1	---



WEAR METALS

Iron	ppm	26	1	31	---
Copper	ppm	2	0	3	---
Lead	ppm	2	0	3	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	11	2	17	---
Chromium	ppm	2	0	2	---
Molybdenum	ppm	38	56	67	---
Nickel	ppm	1	0	0	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	666	1133	1828	---
Magnesium	ppm	605	817	583	---
Zinc	ppm	797	1131	1503	---
Phosphorus	ppm	680	991	1203	---
Barium	ppm	0	0	0	---
Boron	ppm	0	4	26	---

Depot: VOLVO8885
Unique No: 10713543
Signed: Jonathan Hester
Report Date: 31 Oct 2023



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GRAPHS

