Document Title: **Drivetrain, component location**	Function Group: **400**	Information Type: **Service Information**	Date: **2014/4/18**
Profile: **WLO, L220G [GB]**			

Drivetrain, component location
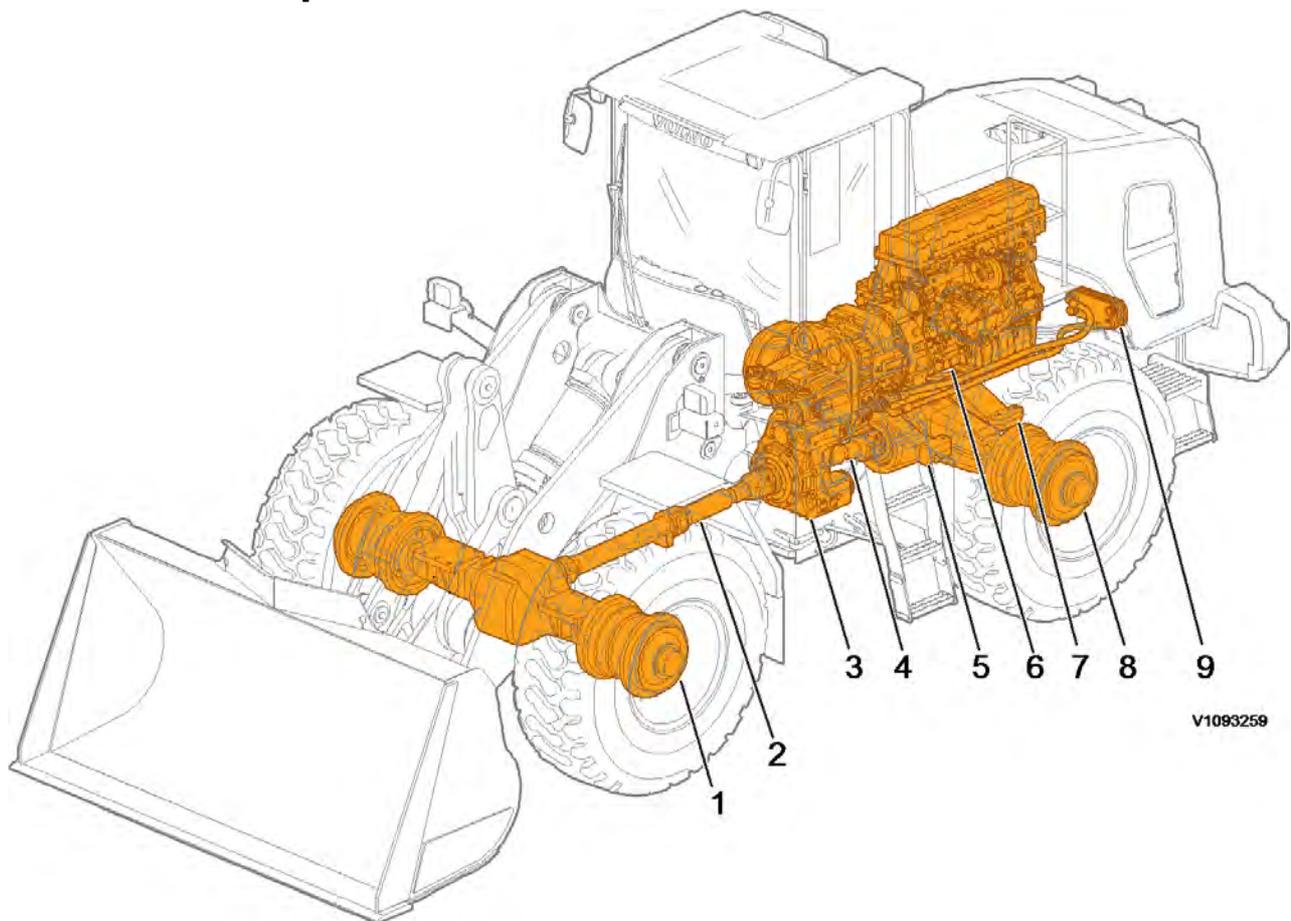
Figure 1

1.   Front axle
2.   Front propeller shaft
3.   Hydraulic transmission
4.   Rear propeller shaft
5.   Front rear axle bridge
6.   Engine
7.   Rear rear axle bridge
8.   Rear axle
9.   Oil cooler

Component positions

Engine: 200 Component locations

Hydraulic transmission: 420 Transmission, component position

Component descriptions

Front axle: [460 Front axle, component description](#)

Rear axle: [460 Rear axle, component description](#)

Rear axle mounting: [460 Rear axle mounting, component description](#)

Propeller shaft: [450 Propeller shaft, component description](#)

Oil cooler: [490 Oil cooler, component description](#)

Document Title: **VCADS Pro, Operations**	Function Group: **400**	Information Type: **Service Information**	Date: **2014/4/18**
Profile: **WLO, L220G [GB]**			

VCADS Pro, Operations

The following VCADS Pro operations are available for function group 4.

Tests

Operation	Use
17012-3 Error codes	Read error codes, always done first.
40012-3 Position sensor, gear selector, test	Testing gear selectors.
40025-3 Solenoid valves, test	Check solenoids. Possible to see the pressure with connected pressure gauge.
40901-3 Sensors, transmission, test	When checking sensors, make sure that they give a reasonable value.
42102-3 Travel direction, test	Checks SE4209.
42103-3 Lock-up, sensor and solenoid valve, checking	Checks sensor and solenoid. Possible to see the pressure with connected pressure gauge.

Calibrating

Operation	Use
42101-3 Transmission, calibrating	Calibration shall be run: — When changing transmission. — If transmission has been dismantled. — When changing V-ECU. — When changing components that may affect pressure.

Programming

Operation	Use
36646-3 - MID187 ECU, programming	Programming V-ECU

| Document Title: **Error codes when calibrating**	Function Group: **400**	Information Type: **Service Information**	Date: **2014/4/18**
Profile: **WLO, L220G [GB]**			

Error codes when calibrating

When calibrating the hydraulic transmission with VCADS Pro, the following error messages may be shown.

Error message	Possible cause	Check/Action
An undefined error/failure has occurred.	VCADS Pro does not recognize the value.	Restart calibration. VCADS Pro, 40901-3 Sensors, transmission, test. VCADS Pro, 40025-3 Solenoid valves, test. Checking pressure, 421 Hydraulic transmission, checking oil pressure . Check-measuring solenoids 302 PWM4213 - PWM4218, description and measuring .
The turbine rpm did not reach the lower rpm level during calibration of each clutch. The turbine rpm did not leave the lower rpm level during calibration of each clutch. The calibration values are above the upper level for each clutch. The calibration values are below the lower level for each clutch. Too big difference between values for subsequent calibrations.	Failure turbine rpm sensor. Binding solenoid core. Binding in disc pack. Oil leakage in clutch shaft.	VCADS Pro, 40901-3 Sensors, transmission, test. VCADS Pro, 40025-3 Solenoid valves, test. Checking pressure, 421 Hydraulic transmission, checking oil pressure . Check-measuring solenoids , 302 PWM4213 - PWM4218, description and measuring .

Document Title: **Transmission, component position**	Function Group: **420**	Information Type: **Service Information**	Date: **2014/4/18**
Profile: **WLO, L220G [GB]**			

Transmission, component position

For information on the hydraulic transmission's functions, see:
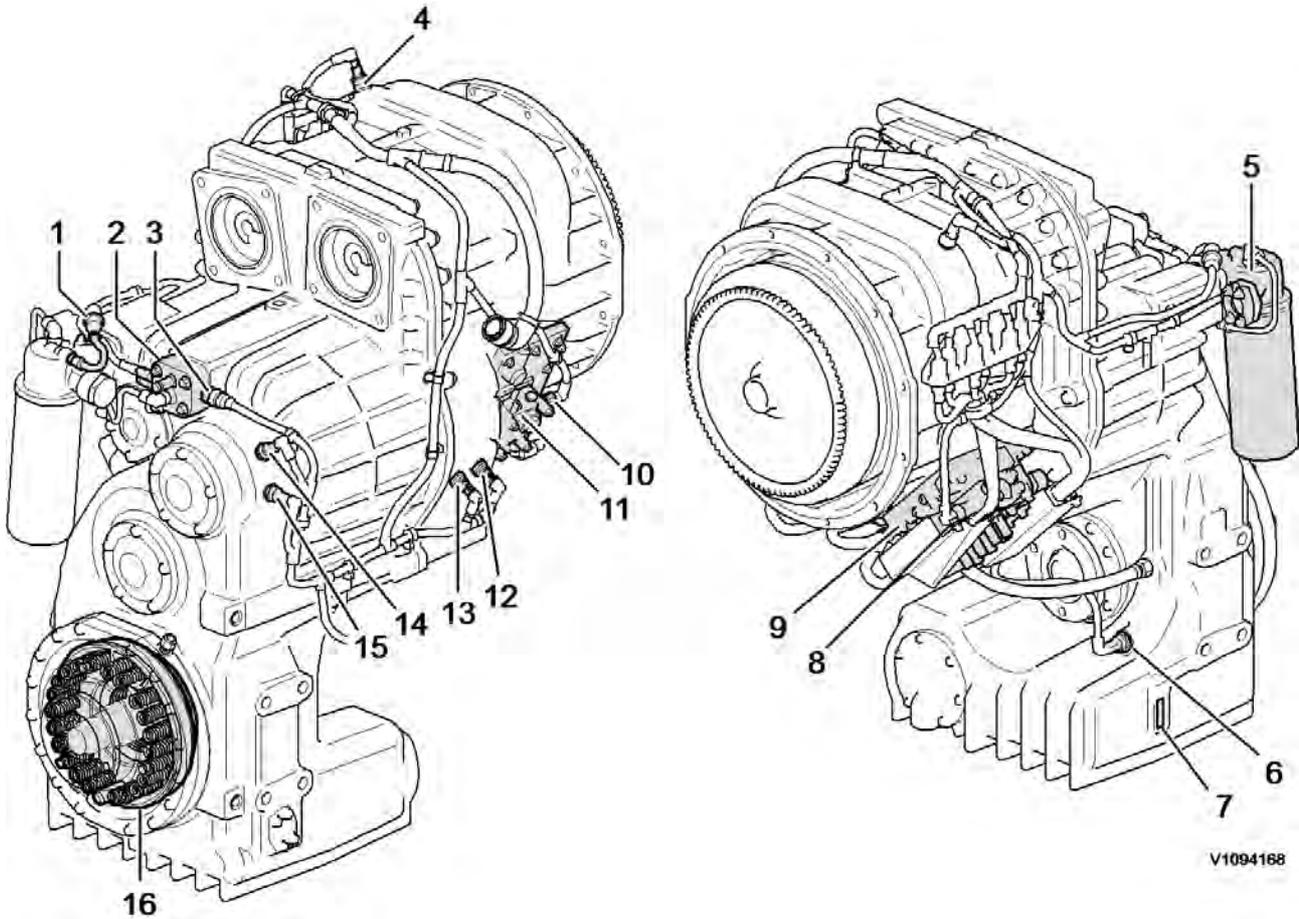
Figure 1

| 1	SE4218 Pressure monitor, transmission oil filter	9	Gear selector valve
2	Lock-up valve	10	SE4202 Transm. temp
3	SE4226 Lock-up pressure	11	Lubrication oil valve
4	SE2704 Engine speed (rpm)	12	SE4312 Intermediate speed (rpm)
5	Filter head	13	SE4213 Turbine speed (rpm)
6	SE4302 Oil level	14	SE4209 Speed (rpm) direction
7	ID-plate	15	SE4307 Output speed (rpm)
8	SE4219 Main pressure	16	Parking brake

Lock-up valve
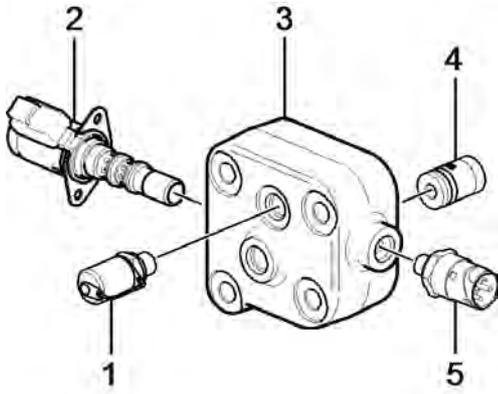
V1094174

Figure 2

1. Pressure check connection
2. PWM4203 Lock-up, solenoid valve
3. Lock-up valve
4. Non-return valve
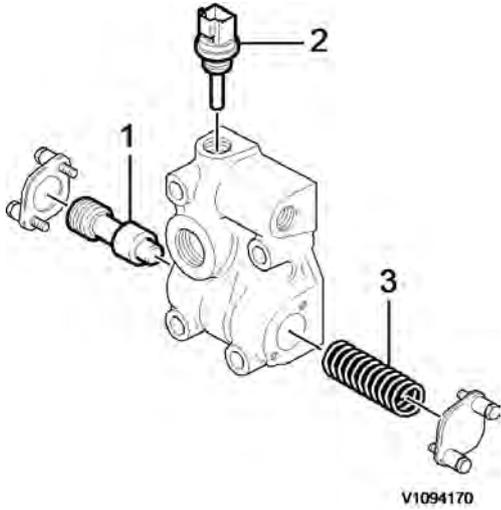5. SE4226 Lock-up pressure

Gear selector valve

V10
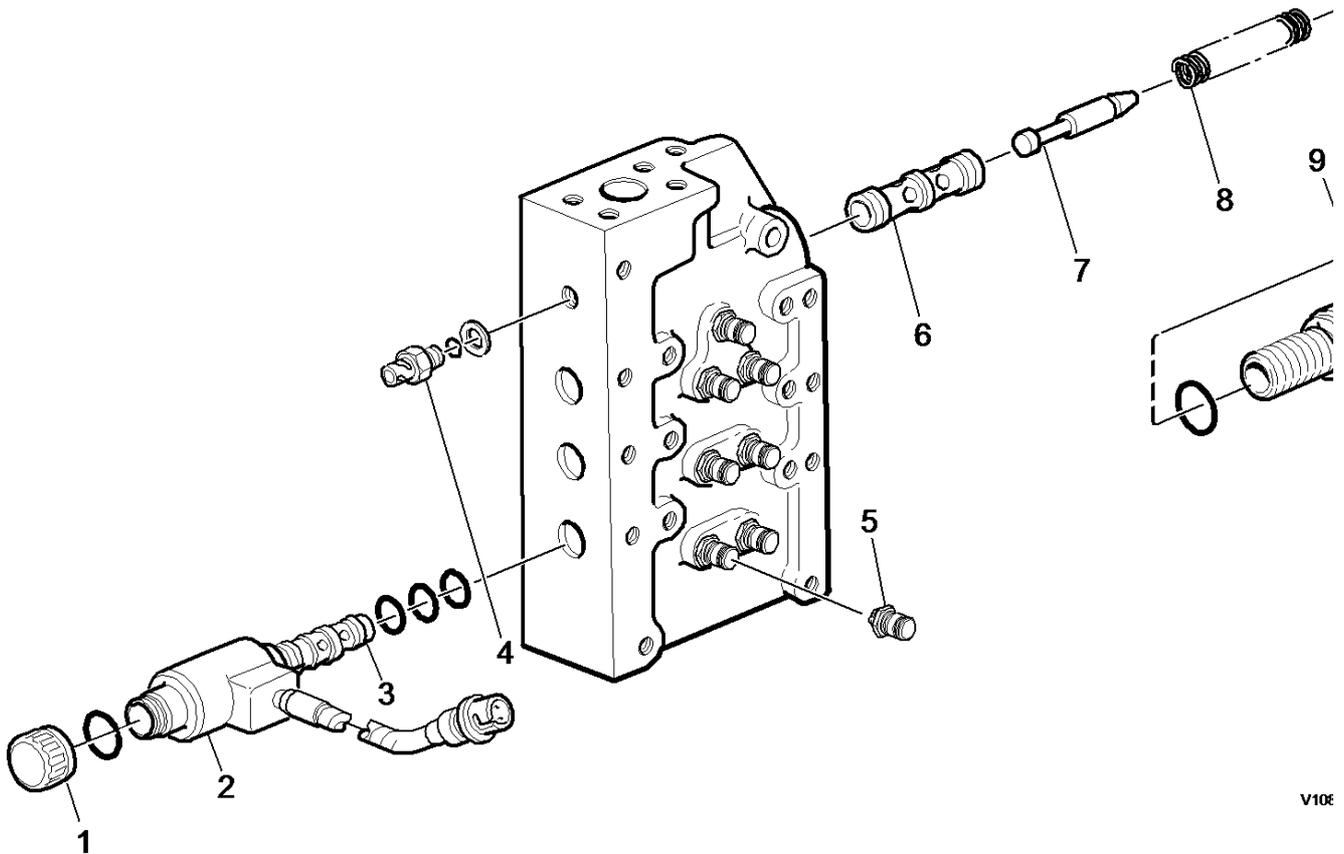
Figure 3

1. Top nut, solenoid valve
2. PWM, solenoid valve
3. Slide, solenoid valve

4. SE4219 Pressure sensor, transmission oil
5. Measuring nipple
6. Sleeve, main pressure valve
7. Slide, main pressure valve
8. Spring, main pressure valve
9. Spring housing, main pressure valve

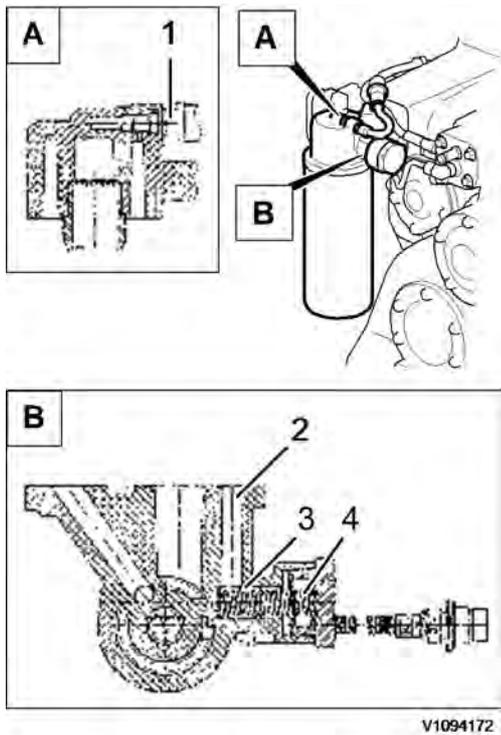**Lubrication oil valve**

V1094170

Figure 4

1. Valve slide
2. SE4202 Temperature sensor
3. Spring

Filter head

V1094172

Figure 5

1. SE4218 Pressure monitor, transmission oil filter
2. Return channel, bypass
3. Slide, bypass valve
4. Spring, bypass valve

Thank you very much for reading.

This is part of the demo page.

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