SV208
SV210
SV212
SV216
SV223
SV228

Vibratory Roller

Service Manual

7-29532

CASE CONSTRUCTION

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SECTION 21 - TRANSMISSION

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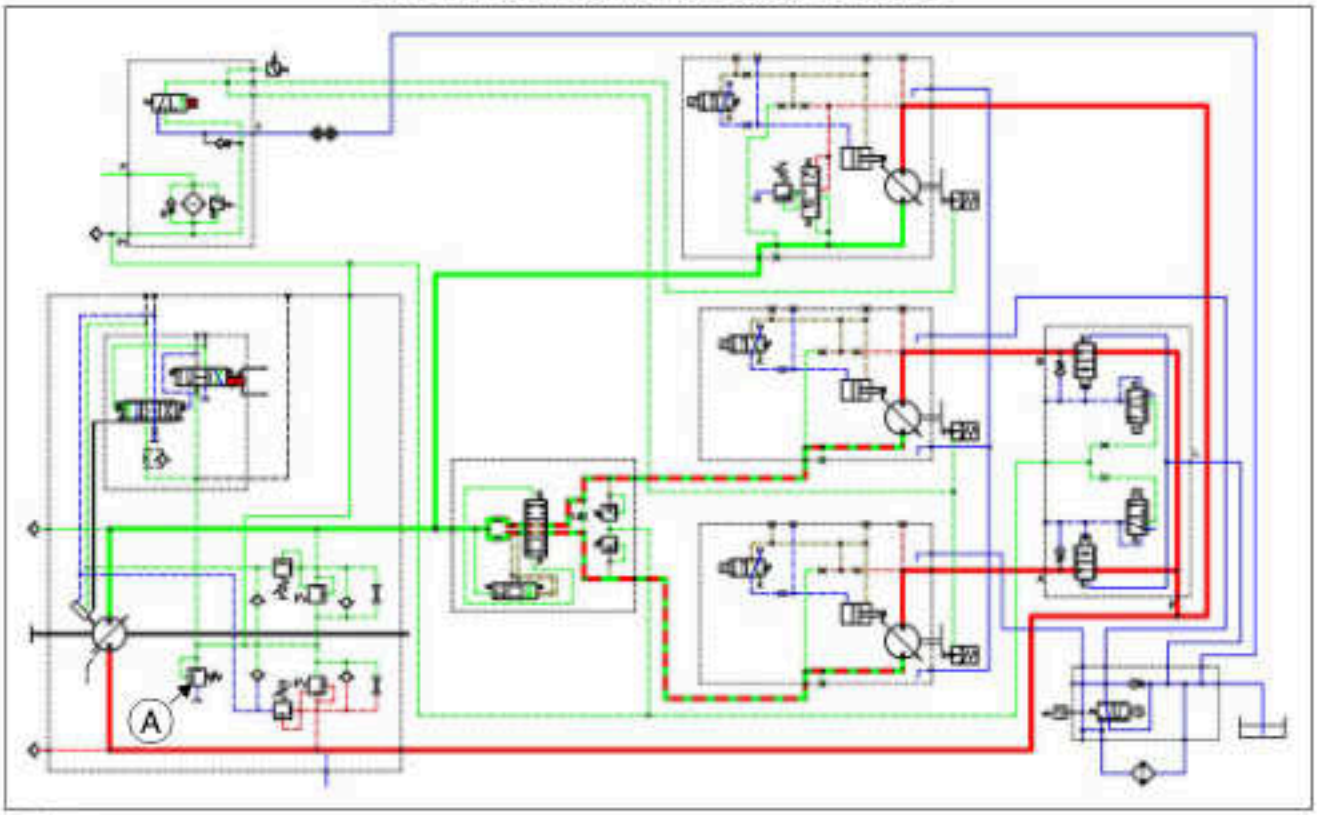
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TRAVEL ACTIVATED, MOVING FORWARD



C301E503 2

Oil flows through the steering filtration block to the travel pump. Part of the fluid goes via the 22 bar (319 psi) safety valve (A) into the pump housing, the other part flows through the safety valve spool in the closed circuit of the drum hydraulic motor into the drum hydraulic motor housing. From there the fluid goes into the housing on the hydraulic motors of the wheels and thereon into the hydraulic reservoir.

The fluid flows from the travel pump housing into the vibration pump casing.

The electro-valve control is activated, the power valve deflects the spool of the power cylinder control to its extreme position, and the cylinder tilts the plate of the travel pump.

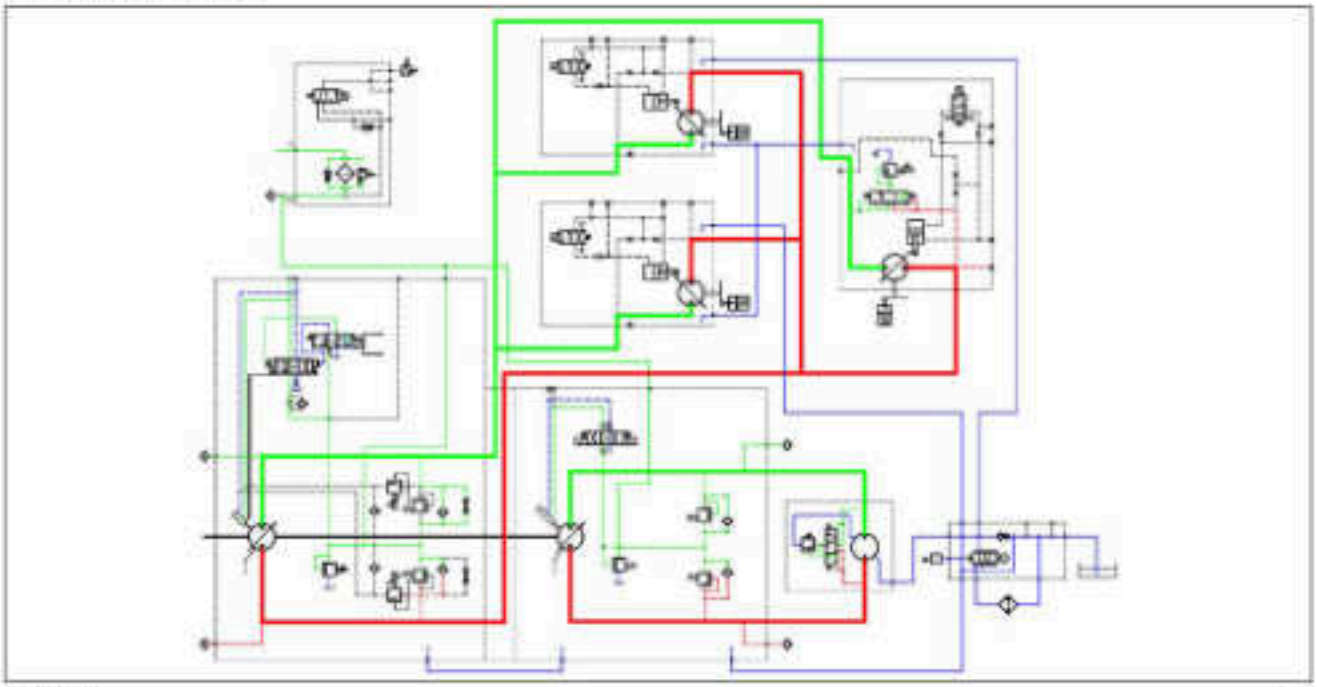
The brake control valve solenoids are activated and release pressurized oil into the brakes in the travel reduction gears. The brakes of the machine have been released.

The pressurized oil flows from the pump to the inputs of the travel hydraulic motors and moves the machine forward.

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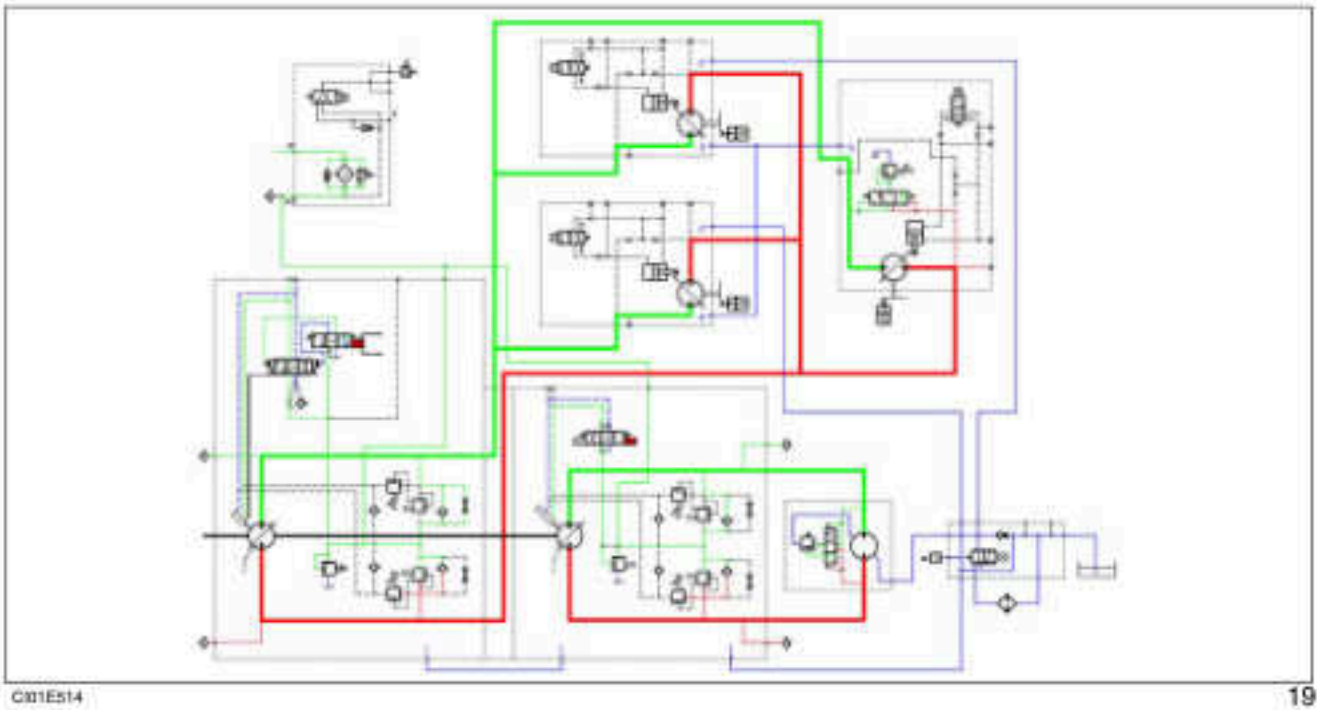
DISCHARGING OF CLOSED CIRCUITS

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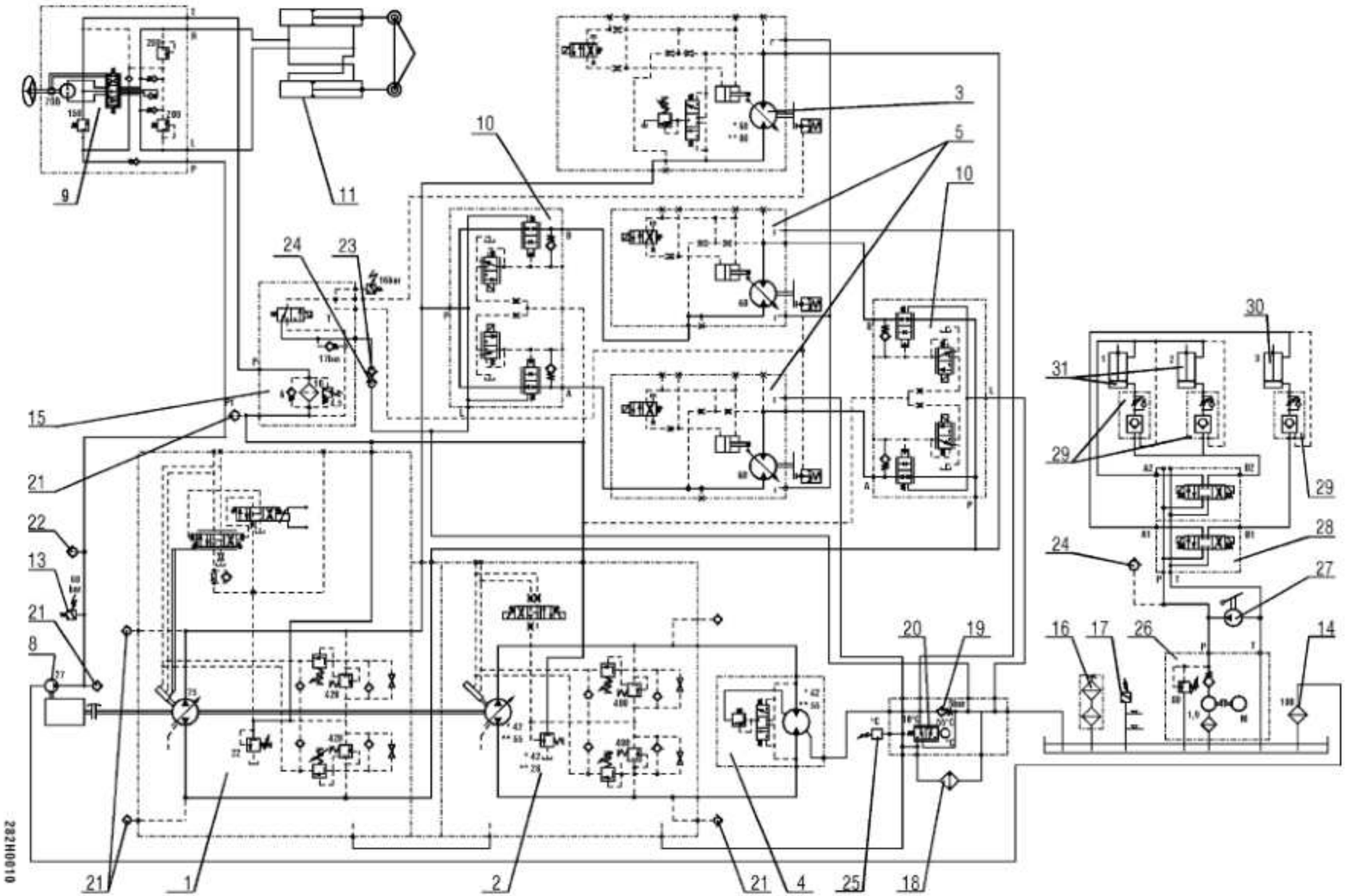
Situation: The machine is moving forward and the drum is vibrating.

Supply pressure arriving from the filtration block is separated into three basic flow passages.

- Flow through the supply pressure safety valve in the travel pump, which discharges the travel pump housing, from there into the vibration pump housing and eventually into the reservoir.
- Discharging of the closed travel circuit: the fluid drains into the drum drive hydraulic motor, from there in parallel into the housing of the wheel drive and eventually into the reservoir.
- Discharging of the closed vibration circuit: the fluid drains into the vibration hydraulic motor housing and eventually into the reservoir.

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Model: SV212 - SV216 4 valves ASC



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