850B
Crawler

Service Manual

9-66863

CASE CONSTRUCTION

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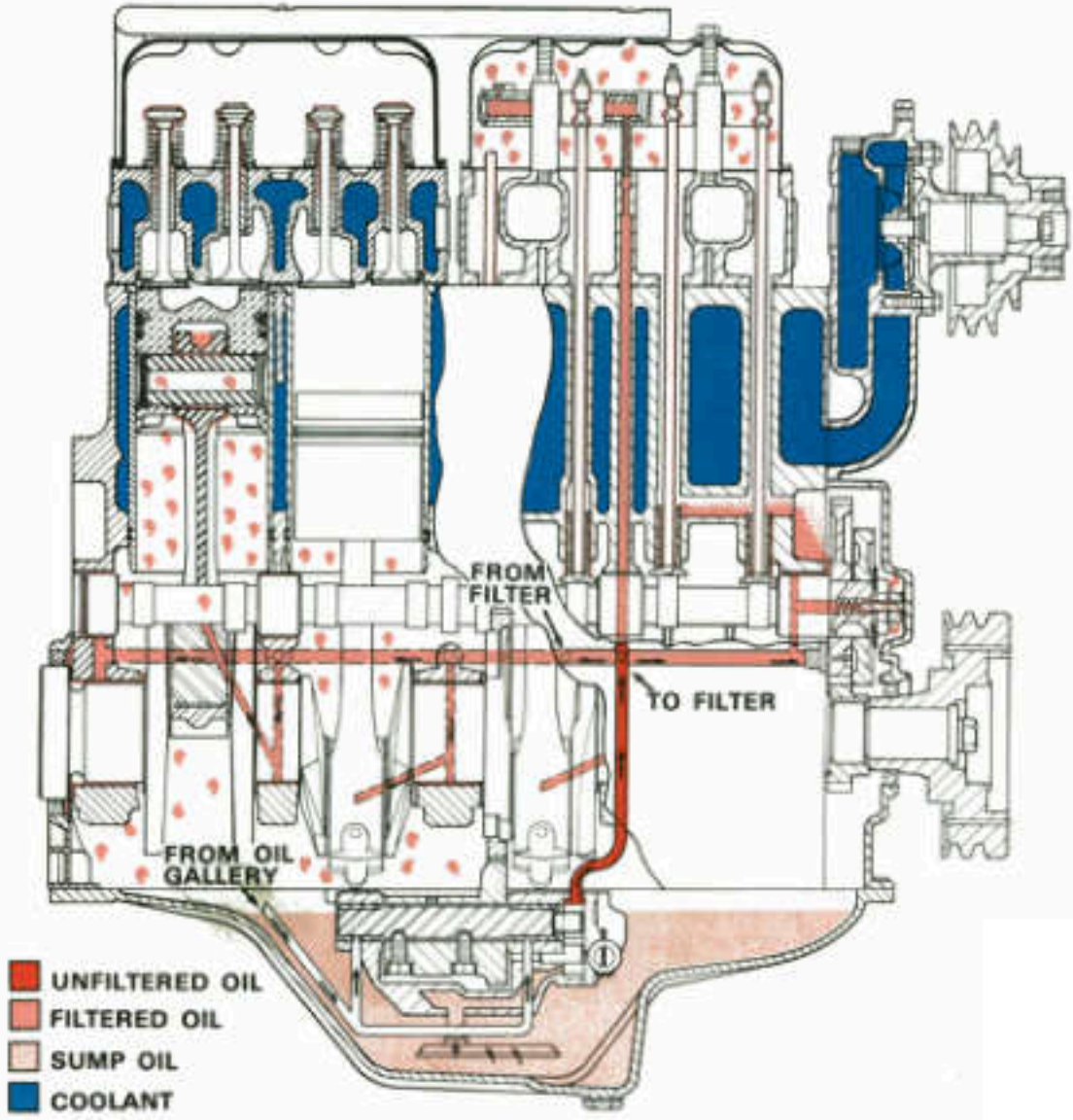
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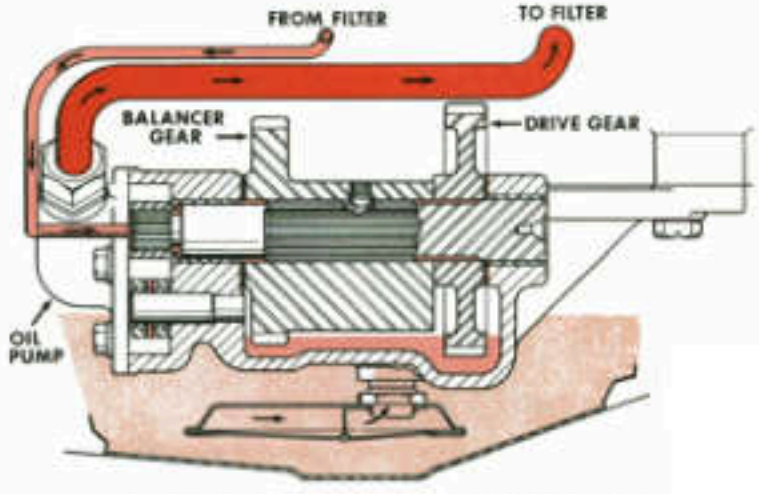
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ENGINE LUBRICATING OIL AND COOLANT SYSTEMS

PRESSURE AND SPRAY TYPE LUBRICATING OIL SYSTEM

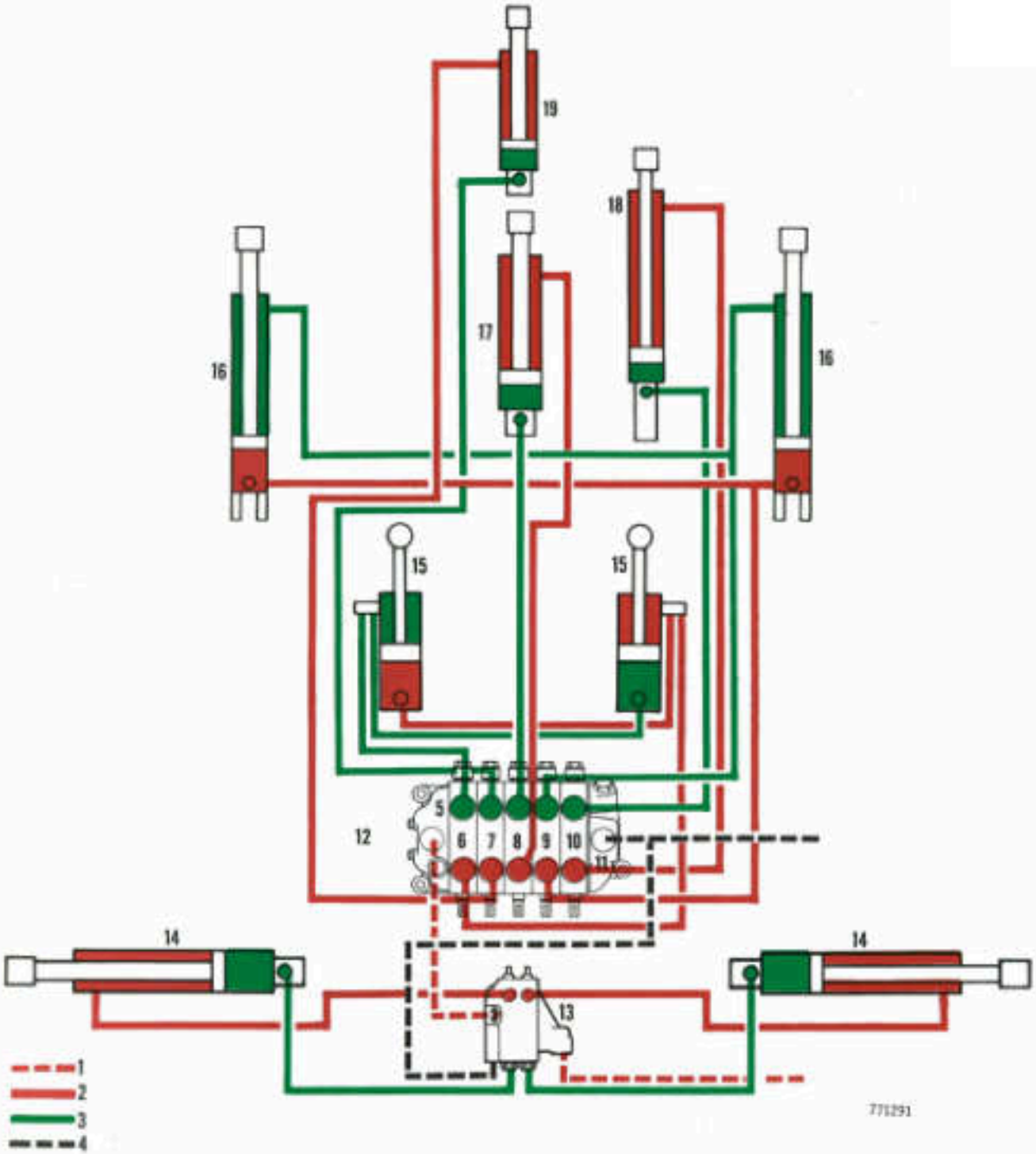


WITH TWO GEAR BALANCER



WITH THREE GEAR BALANCER

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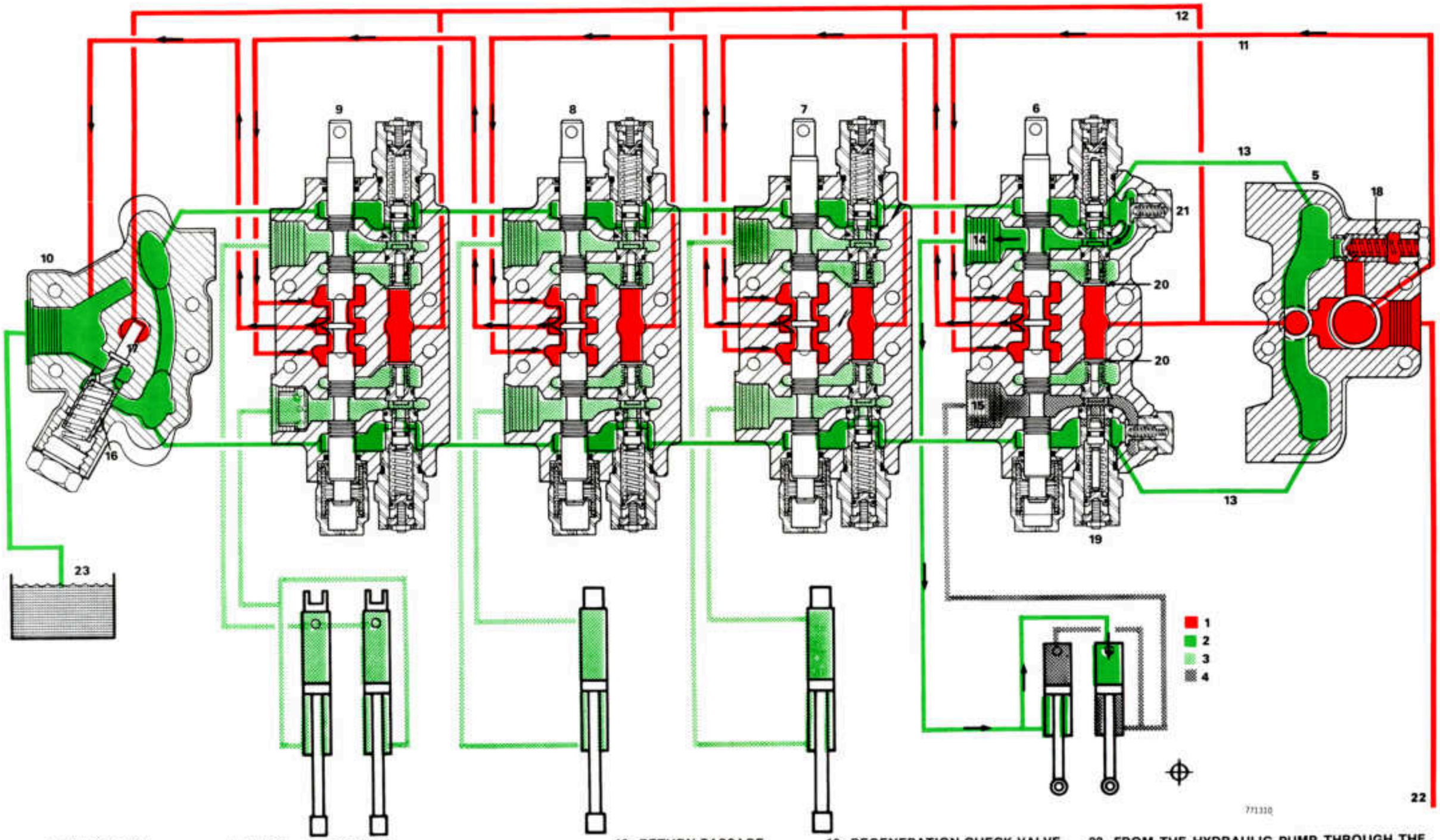


1. PUMP FLOW FROM LOADER OR DOZER CONTROL VALVE
2. OIL TO/FROM CONTROL VALVE A PORTS AND CYLINDERS
3. OIL TO/FROM CONTROL VALVE B PORTS AND CYLINDERS
4. RETURN OIL
5. INLET SECTION
6. SWING SECTION
7. BUCKET SECTION
8. DIPPER SECTION
9. BOOM SECTION
10. EXTENSION SECTION
11. OUTLET SECTION
12. BACKHOE VALVE
13. STABILIZER VALVE
14. STABILIZER CYLINDER
15. SWING CYLINDER
16. BOOM CYLINDER
17. DIPPER CYLINDER
18. EXTENSION CYLINDER
19. BUCKET CYLINDER

NOTE: THE DIAGRAM FOR A BACKHOE WITHOUT A DIPPER EXTENSION IS THE SAME EXCEPT THE EXTENSION CIRCUIT IS GONE.

Figure 7 - Backhoe Hydraulic Diagram

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1. PUMP FLOW
2. RETURN OIL
3. STATIC OIL
4. OIL PUSHED OUT OF SWING CYLINDERS
5. INLET
6. SWING
7. BUCKET
8. DIPPER
9. BOOM
10. OUTLET
11. OPEN CENTER PASSAGE (INTERNAL)
12. PARALLEL PASSAGE (INTERNAL)
13. RETURN PASSAGE
14. A PORT
15. B PORT
16. REGENERATION SPOOL
17. REGENERATION PISTON
18. REGENERATION CHECK VALVE
19. SECONDARY RELIEF VALVE
20. LOAD CHECK VALVE
21. ANTICAVITATION VALVE
22. FROM THE HYDRAULIC PUMP THROUGH THE LOADER OR DOZER CONTROL VALVE AND STABILIZER CONTROL VALVE
23. HYDRAULIC OIL RESERVOIR

Figure 8 - Oil Flow, Boom Moving to the Right and Stopping

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