SERVICE MANUAL

D150C
Stage IIIB
Crawler Dozer

PIN NDDC15000 and above; PIN NEDC15000 and above; PIN NFDC15000 and above

Part number 47907876
2nd edition English
October 2015
Replaces part number 47619945

NEW HOLLAND CONSTRUCTION

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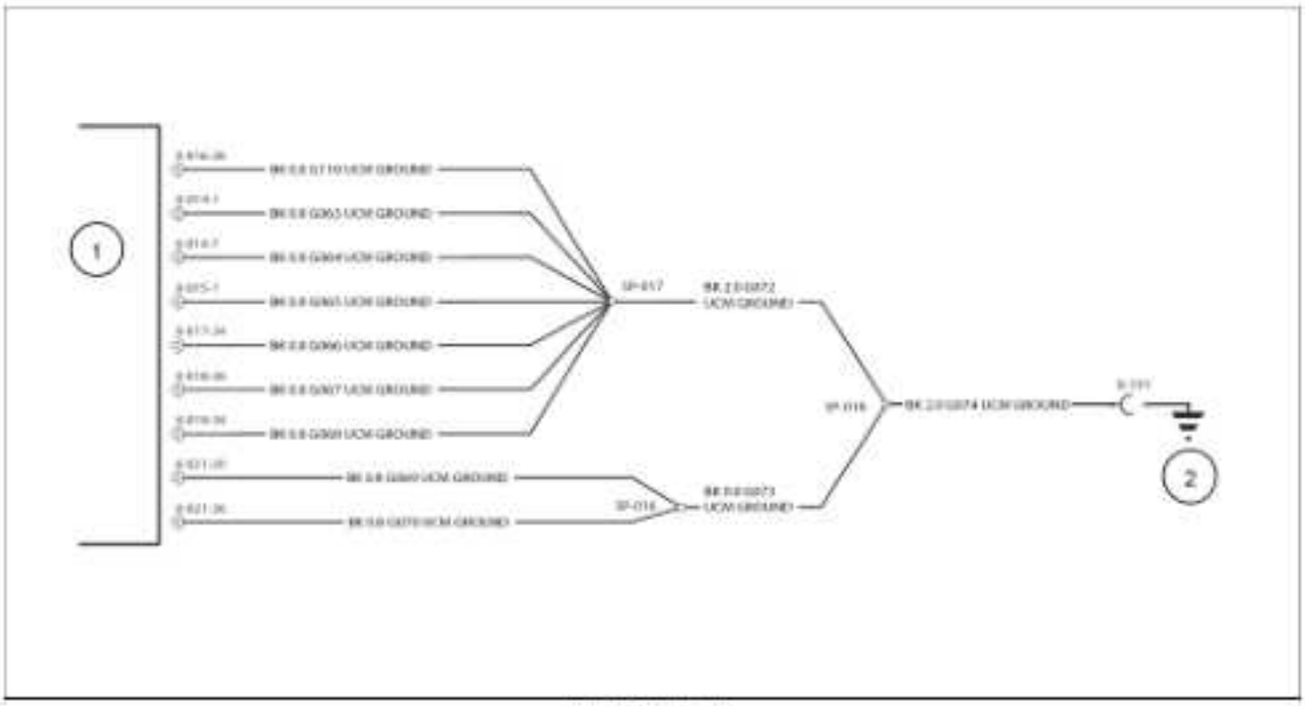
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RAL13DC0043IFA 1

Schematic Legend			
(1)	UCM connector X-014 Pin 7, UCM chassis ground	(2)	Chassis ground connection

A. The harness is not damaged and all connections are secure. Go to step **3**.

B. The harness is damaged or the connectors are loose or damaged. Repair or replace the harness as required. Return to step **1** to confirm elimination of fault.

3. Measure the resistance of the UCM ground connection.

Turn the ignition switch OFF.

Disconnect the UCM connector X-014.

Measure the resistance between X-014 pin 7 and chassis ground. The resistance should be less than **10 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

Measure the resistance between X-014 pin 1 and chassis ground. The resistance should be less than **10 Ω**. Wiggle the harness during measurement to reveal an intermittent condition.

A. Both resistance measurements are less than **10 Ω**. The UCM ground connection is free of grease, oil, paint, dirt and debris. Temporarily replace the UCM and retest. Return to **1** to confirm elimination of the fault.

B. One or both resistance measurements are greater than **10 Ω**. There is a high resistance or an open circuit in the UCM chassis ground connection. Verify that the UCM ground connection is free of paint, oil, grease, dirt, and debris. Repair or replace the UCM ground wire as required. Return to **1** to confirm elimination of the fault.

Harnesses and connectors - Electrical schematic sheet 08 UCM (55.100-C.20.E.08)
Harnesses and connectors - Electrical schematic sheet 03 Grounding (55.100-C.20.E.03)

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Fault code 4303 should no longer be active. Fault code 4302 is now active. Fault code 4311 will also be active, ignore this fault code.

A. Fault code 4303 is no longer active. Fault code 4302 is now active. Temporarily replace both solenoids and retest. Return to step **1** to confirm elimination of the fault.

B. Fault code 4303 is still present and active. Fault code 4302 did not become active. Temporarily replace the UCM and retest. Return to step **1** to confirm elimination of the fault.

Harnesses and connectors - Electrical schematic sheet 09 UCM (55.100-C.20.E.09)
Harnesses and connectors - Electrical schematic sheet 23 Drive Train/ Pumps (55.100-C.20.E.23)

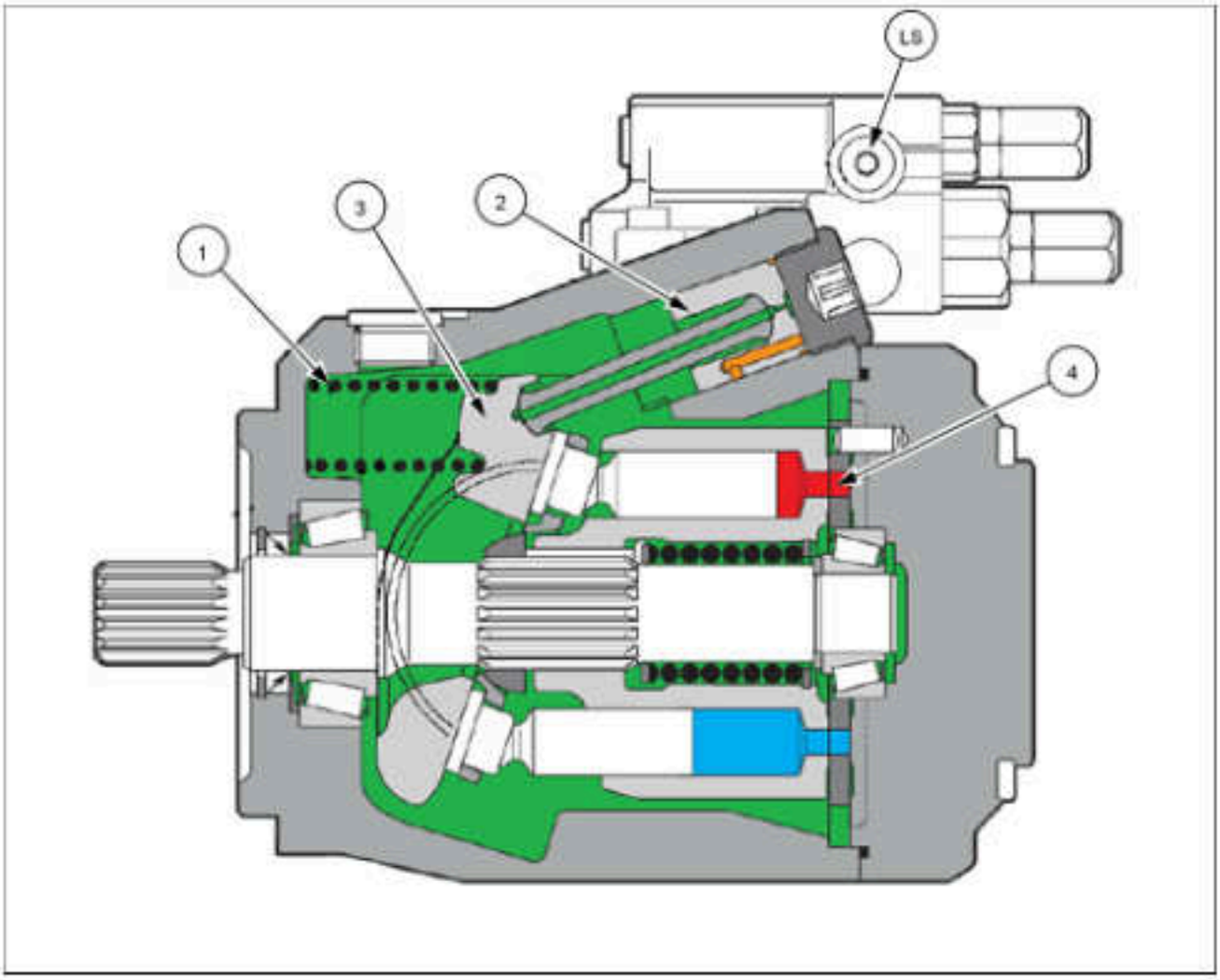
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19379-Urea temperature too low during commissioning - temperatures not plausible during commissioning

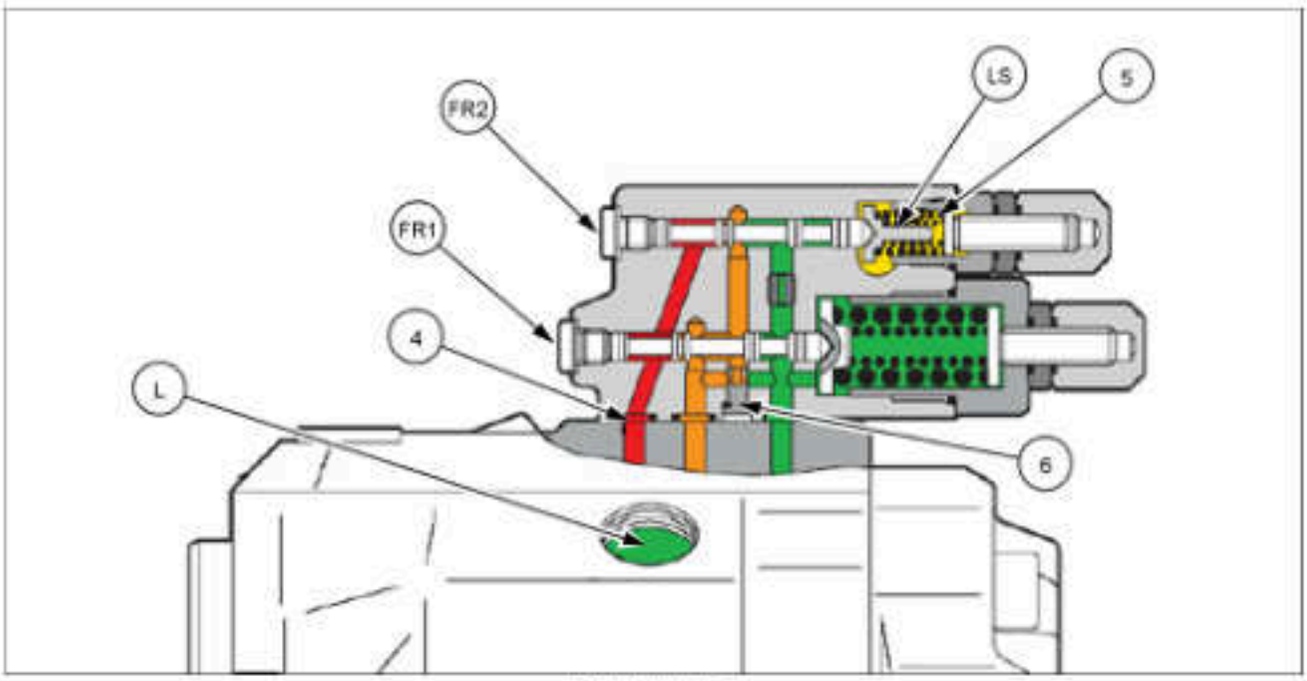
D150C	WE

Context:
The dosing control unit (DCU) has detected the temperatures are not correct within **30 min** of operation. The Ad/Blue™/Def is too cold. The module box temperature is less than **-8.9 °C** (**16 °F**) or greater than **75.0 °C** (**167 °F**), or the Ad/Blue™/Def tank is less than **-16.7 °C** (**2 °F**) or greater than **75.0 °C** (**167 °F**). Bring temperature to a normal level, between **0.0 - 30 °C** (**32 - 86.0 °F**). Ensure all connectors are secured properly on the DCU and all lines are in operable condition.

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RCPH11WHL035BAN 2



RCPH11WHL035PAN 3

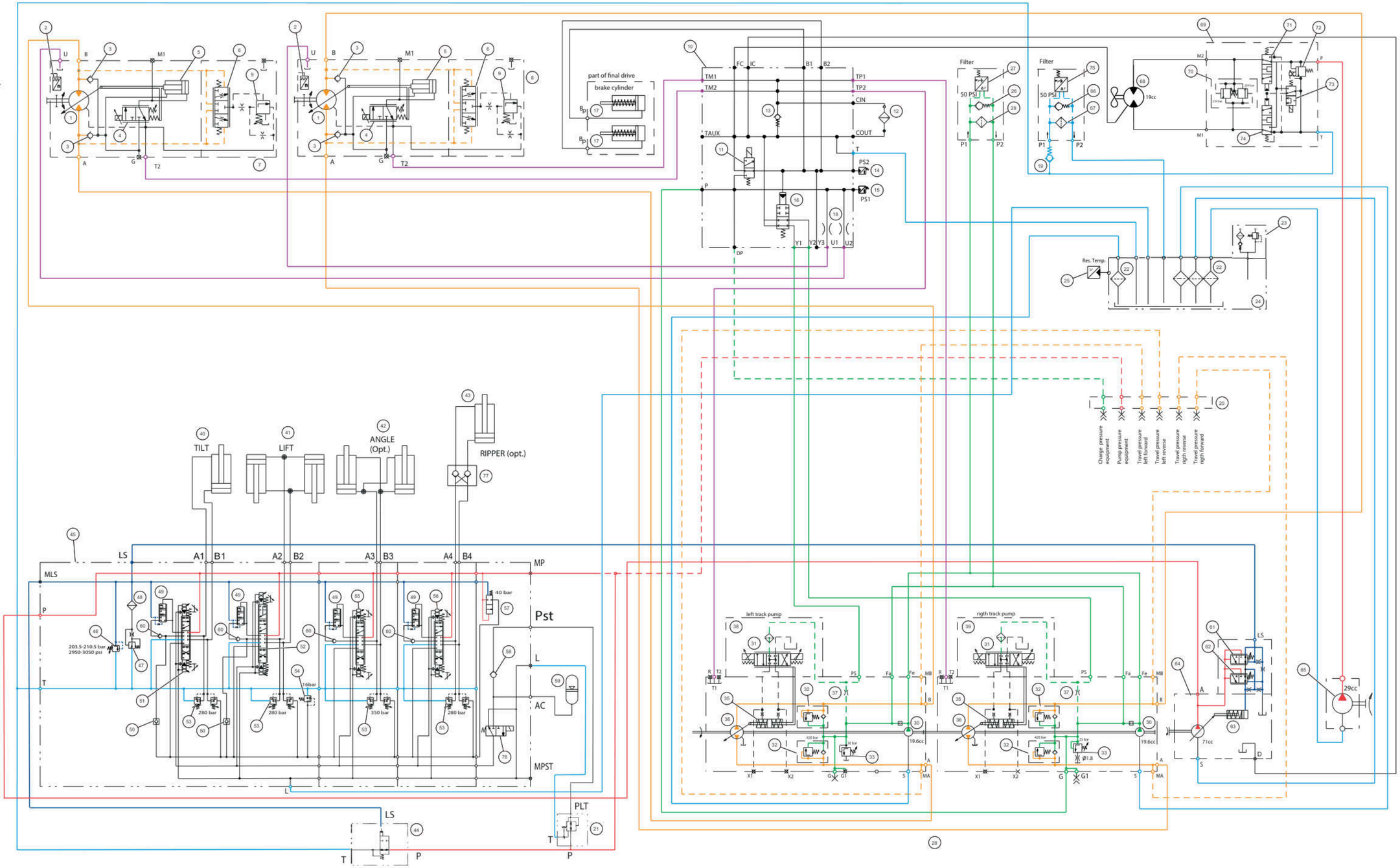
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HYDRAULIC SCHEMATIC
D150C DOZER
Stage IIIB\Tier 2 - ROW

Additional copies of this Schematic can be ordered through Technical Publications Distribution System. Part # RAC 47907886 (replaces RAC 47714315)

LEGEND

- HYDRAULIC PRESSURE
- CHARGE PUMP PRESSURE
- RETURN TO TANK/ PUMP INLET
- TRACK DRIVE
- TRACK DRIVE CASE DRAIN
- LOAD SENSE



1	Track Drive Motor	13	Oil Cooler Bypass	25	Reservoir Temperature Sensor	37	Pump Speed Control Orifice	49	Flow Compensator Spool	61	Flow Control Spool	73	Fan Reverse Solenoid
2	Track Drive Motor Speed Sensor	14	Brake Release Pressure Switch	26	Charge Filter Bypass Valve	38	Left Track Pump Assembly	50	Regeneration Check Valve	62	High Pressure Cut-Off Spool	74	Forward Pilot Control Valve
3	Motor Control Check Valve	15	Charge Pressure Switch	27	Charge Filter Pressure Switch	39	Right Track Pump Assembly	51	Tilt Spool	63	Destroke Pistons	75	Hydraulic Filter Pressure Switch
4	Motor Control Solenoid Valve	16	Neutral Override Valve	28	Tandem Pump Assembly	40	Tilt Cylinder	52	Lift Spool	64	Equipment Hydraulic Pump	76	Pilot On/Off Solenoid Valve
5	Motor Speed Control Piston	17	Park Brake Release Piston	29	Charge Filter	41	Lift Cylinders	53	Circuit Relief w/ Anticavitation	65	Fan Drive Pump	77	Ripper Lock Check Valve
6	Motor Flushing Valve	18	Motor Cooling Orifice	30	Charge Pump	42	Angle Cylinders	54	Regeneration Relief Valve	66	Filter Bypass Valve		
7	Left Track Drive Motor Assembly	19	Backpressure Check Valve	31	Pump Control Solenoid Valve	43	Ripper Cylinder	55	Angle Spool	67	Hydraulic Filter		
8	Right Track Drive Motor Assembly	20	Hydraulic Test Points	32	High Pressure Relief/Check Valve	44	Pump Flushing Valve	56	Ripper Spool	68	Fan Drive Motor		
9	Motor Flushing Valve Flow Control	21	Pilot Pressure Reducing Valve	33	Charge Pressure Relief	45	Equipment Valve	57	Pressure Spike Clipper	69	Fan Reverse Valve		
10	Brake Release (Multi-function) Valve	22	Reservoir Suction Screen	34		46	Load Sense Relief Valve	58	Pilot Pressure Check Valve	70	Fan Reversing Pressure Relief		
11	Park Brake Release Solenoid	23	Reservoir Pressure Cap	35	Pump Control Piston	47	Signal Bleed Down Orifice	59	Pilot Accumulator	71	Reverse Pilot Control Valve		
12	Oil Cooler	24	Hydraulic Reservoir	36	Track Drive Pumps	48	Screen	60	Load Check Valve	72	Fan Speed Control Solenoid		

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