Service Manual

Model 1044C-54 Series II

31200079

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Fluid and Lubricant Specifications

General Specifications

Table 3-1: General Fluid and Lubricant Specifications

SYSTEM OR COMPONENT	FLUID OR LUBRICATION	SPECIFICATION
Fuel System[1]	See "Fuel Requirements"	
Hydraulic System	Tractor Hydraulic Fluid	Mobilfluid®424
Engine Cooling System[1]	See engine manufacturer's operator's manual.	
Engine Oil[1]	See "Engine Oil Specifications"	
Transmission	See "Transmission Oil Specifications"	
Differential (Front & Rear)	Tractor Hydraulic Fluid	Mobilfluid®424
Planetary Hub	Tractor Hydraulic Fluid	Mobilfluid®424
Grease Points	Grease	Lithium-based

[1] Consult engine manufacturer's operator manual for additional information.

MV0500

Engine Oil Specifications

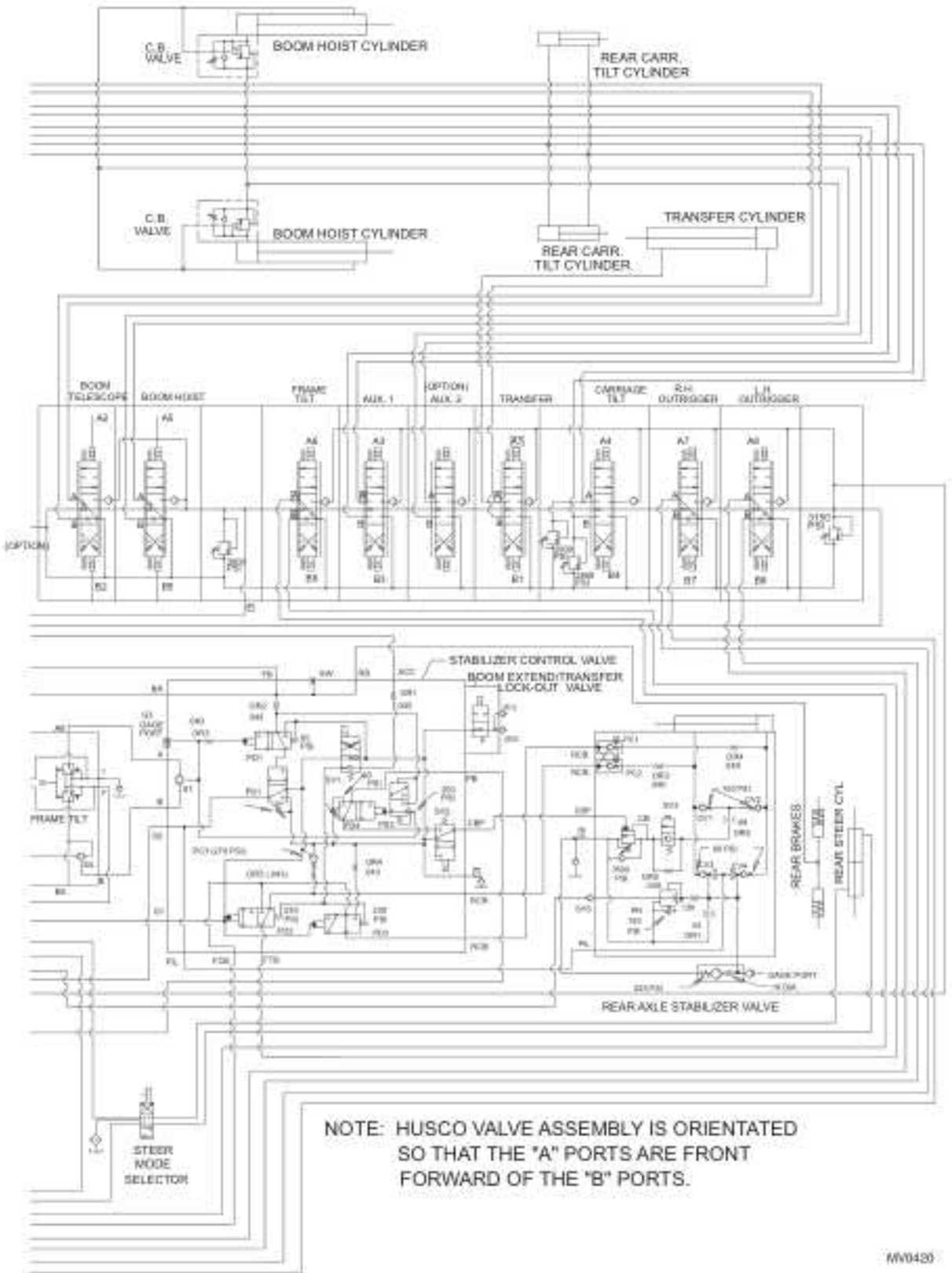
John Deere Engines

Use the table below to select the oil viscosity based on expected air temperature range during the period between oil changes. Consult the John Deere Operator's Manual for additional information.

Note: *New John Deere engines use special break-in oil for the initial period of operation. Consult engine Operator's Manual for additional information.*

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Diagram 4-1 — Mid-Inlet Hydraulic Schematic (cont'd)



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Disassembly, Oscillation Control Block

Check Valve

1. Note position of hydraulic fittings installed in block body then remove fittings.

Pressure Reducing Cartridge

2. Remove pressure reducing cartridge (Item 15) and two (2) check valve cartridges (Item 13).
3. Remove two (2) pilot pistons (Item 14).

Solenoid Valve

4. Remove the one (1) SAE #2 plugs (Item 18), three (3) SAE #4 plugs (Item 9), two (2) SAE #6 plug (Item 4), and SAE #10 plug (Item 10).
5. Orifice plug (Item 19) does not usually require removal. It will be cleaned when the block body is flushed.

Cleaning and Inspection, Oscillation Control Block

1. Remove O-rings and backup rings from pressure reducing valve cartridge (Item 15), two (2) check valve cartridges (Item 13), counter balance valve cartridge (Item 5), and PO Check Valve (Item 6). Clean these components with solvent and dry with compressed air. Inspect components for condition and cleanliness.
2. Thoroughly flush block body with solvent and dry with compressed air.
3. Clean remaining components (except solenoid coil) with solvent and dry with compressed air.
4. Inspect orifice plugs (Items 17 and 19) for blockage and clean as necessary.

Assembly, Oscillation Control Block

1. If orifice plug (Item 19) was removed, install in block body so it is finger tight. Tighten orifice plug 2–3 turns past finger tight.
2. Install two (2) SAE #6 plugs (Item 4). Torque plugs to 210–230 in-lbs.
3. Install one (1) SAE #2 plugs (Items 18). Torque plugs to 30–40 in-lbs.
4. Install three (3) SAE #4 plug (Item 9). Torque plug to 125–145 in-lbs.
5. Install SAE #10 plug (Item 10). Torque plug to 71–79 ft-lbs (850–950 in-lbs).
6. Obtain new O-rings and backup rings for pressure reducing cartridge (Item 15), two (2) check valve cartridges (Item 13), two (2) pilot pistons (Item 14), counter balance valve cartridge (Item 5), and PO Check Valve (Item 6). Lubricate all O-rings and backup rings with hydraulic oil before installing on components.

Pressure Reducing Cartridge

7. Install large O-ring on pressure reducing valve cartridge (Item 15). Install backup ring and O-ring on cartridge so backup ring is behind O-ring.
8. Lubricate all O-rings and backup rings on pressure reducing cartridge (Item 15). Install cartridge and torque to 270–300 in-lbs.

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