FILTER OVERVIEW WITH SERVICE INTERVALS AND CAPACITIES
(765001- ) S-Series Combines S650, S660, S670, S680, S690

ENGINE
ENGINE AIR PRECLEANER
PRIMARY FILTER HXE11090
ENGINE AIR PRECLEANER
SECONDARY FILTER HXE11091
Check every 400 hours. Service Primary Air Filter when engine air filter restricted indicator is shown on display. Check safety filter for plugging.

ENGINE
DIESEL EXHAUST FLUID (DEF) TANK VENT FILTER H216169
Clean every 250 hours and replace every 400 hours.

ENGINE
FUEL TANK VENT FILTER H216169
Clean every 250 hours and replace every 400 hours.

ENGINE
PRIMARY FUEL FILTER RE539465
SECONDARY FUEL FILTER RE533910
RE525523 FUEL FILTER TIER 2 (S650, S660, S670)
RE532952 PRIMARY FUEL FILTER TIER 2 (S680, S690)
Replace every 400 hours and when performance decline is noticed or Diagnostic Trouble Code (DTC) is generated.

ENGINE
OIL FILTER
(S650, S660, S670) RE509672
(S680, S690) RE572785
Replace every 250 hours. If using Plus-50™II engine oil and a John Deere™ filter, service interval can be extended to 400 hours. (Click here for capacity)

HYDRAULIC/HYDROSTATIC/TRANSMISSION
MAIN ENGINE GEARCASE FILTER AH128449
Replace after First 100 hours and then after Every 400 hours.

HYDRAULIC RETURN FILTER
(S650, S660, S670 Electric Shift Transmission & S660, S670 ProDrive™ Transmission) AT129775
Replace every 400 hours.

HYDRAULIC RETURN FILTER
(Reservoir)(S680, S690 ProDrive™ Transmission) AXE12964
Replace every 1000 hours and when performance decline is noticed or Diagnostic Trouble Code (DTC) is generated.

HYDROSTATIC DRIVE PUMP
(S660, S670, S680, S690 ProDrive™ Transmission) AN207368
Replace every 400 hours.

CAB
FRESH AIR FILTER RE284091
Clean or replace every 50 hours and as required.

CAB
RECIRCULATION AIR FILTER L214634
Clean or replace every 200 hours and as required.

ENGINE
DIESEL EXHAUST FLUID (DEF) DOSING FILTER RE554498
Replace every 4500 hours or every three years of operation, whichever occurs first.

HYDRAULIC
HYDRAULIC/HYDROSTATIC FILTERS
PRIMARY AXE42066
Check every 50 hours. Service Primary Air Filter when engine debris management air filter restricted indicator is shown on display.

SECONDARY AXE42065
Never clean the safety element. Replace if dirty. Service or Change Secondary filters as required with Primary Filter.

ENGINE
DEBRIS MANAGEMENT AIR FILTERS
PRIMARY AXE42066
SECONDARY AXE42065

ENGINE
DIESEL PARTICULATE FILTER (DFP)
(S650, S660, S670) RE542183
(S680, S690) RE541836 (IT4)
(S660, S670) (765000 - 785000) RE561840 (FT4)
(S650) (765000 - 785000) RE561836 (FT4)
(S650, S660, S670) S.N (785001 - 795000) RE561844 (FT4)
(S680, S690) S.N (785250 - 785000) RE561844 (FT4)
(S680, S690) S.N (785001 - ) DZ100175 (FT4)
Check Every 4500 hours or Diagnostic Trouble Code (DTC) is generated.

March 2019. Subject to change without notice.

CAPACITIES (Approximate):

**Fuel Tank:**
- S650, S660, S670 .................................................. 950 L (250 gal)
- S680, S690 .......................................................... 1,250 L (330 gal)

**Cooling System with Heater:**
- **Cool-Gard™ II**
  - S660, S670 .................................................. 53 L (14 gal)
  - S680, S690 (Tier 2) ........................................ 61.2 L (16.16 gal)
  - S680, S690 (FT4) ........................................... 85 L (22.5 gal)

**Engine Crankcase with Filter:**
- **Plus-50™ II**
  - S650, S660, S670 ............................................ 27.5 L (7.30 gal)
  - S680, S690 (Tier 2) ....................................... 39 L (10.30 gal)
  - S680, S690 (FT4) ........................................... 43 L (11.35 gal)

**Transmission (Mechanical Shift and Push Button Shift Machines):**
- **GL-5**
  - S650, S660, S670 .................................................. 9.6 L (2.53 gal)

**Engine Gearcase with Transfer (Mechanical Shift and Push Button Shift Machines):**
- **Hy-Gard™**
  - S650, S660, S670 .................................................. 21.3 L (5.6 gal)

**Engine Gearcase with Transfer (ProDrive™ Machines):**
- **Hy-Gard™**
  - S670, S680, S690 .................................................. 51 L (13.5 gal)

**Final Drives:**
- **GL-5**
  - All Models .................................................. 8 L (2.11 gal)

**Countershaft Drive Gearcase:**
- **GL-5**
  - All Models .................................................. 1.9 L (0.50 gal)

**Heavy-Duty Feeder House Reverser Gearcase without Cooler:**
- ISO VG 460 Fully Synthetic
  - S650, S660 .................................................. 2.3 L (0.60 gal)

**Heavy-Duty Feeder House Reverser Gearcase with Cooler:**
- ISO VG 460 Fully Synthetic
  - S650, S660 .................................................. 3.5 L (0.92 gal)
  - S680, S690 .................................................. 3.6 L (0.95 gal)
  - S650, S660, S670 .................................................. 4.9 L (1.29 gal)

**Extra Heavy-Duty Feeder House Reverser Gearcase with Cooler:**
- ISO VG 460 Fully Synthetic
  - S650, S660 .................................................. 5.2 L (1.37 gal)

**Multi-Speed Feeder House Reverser Gearcase with Cooler (Optional):**
- ISO VG 460 Fully Synthetic
  - S670, S680, S690 .................................................. 52.2 L (13.8 gal)

**Loading Auger Gearcase:**
- **GL-5**
  - All Models .................................................. 3.8 L (1.00 gal)

**Two Speed Separator Drive Gearcase:**
- **GL-5**
  - All Models .................................................. 4.7 L (1.24 gal)

**Diesel Exhaust Fluid (DEF) Tank:**
- John Deere™ Diesel Exhaust Fluid
  - All Models .................................................. 52.2 L (13.8 gal)

**Premium Overshot Beater Gearcase (if equipped):**
- **GL-5**
  - S670, S680, S690 .................................................. 0.2 L (0.05 gal)

**Hydraulic/Hydrostatic Reservoir:**
- **Hy-Gard™**
  - S650, S660, S670 .................................................. 31 L (8.2 gal)
  - S680, S690 .................................................. 47 L (12.4 gal)