

# FILTER OVERVIEW WITH SERVICE INTERVALS AND CAPACITIES

## S700 Series Combines S760, S770, S780, S790

### ENGINE MAIN ENGINE GEARCASE FILTER

Replace within first 100 hours and every 400 hours

### CAB

### RECIRCULATION AIR FILTER

Clean or replace every 200 hours and as required.

### CAB

### FRESH AIR FILTER

Clean or replace every 50 hours and as required.

### ENGINE PRIMARY AIR FILTER

Clean or replace every 50 hours and as required.

### SECONDARY AIR FILTER

Check every 400 hours. Service Primary Air Filter when engine air filter restricted indicator is shown on display. Check safety filter for plugging.

### ProDrive™ Lubrication Filter

Replace within first 100 hours and every 400 hours.

### ENGINE PRIMARY FUEL FILTER (FT4/Stage IV Engine)

Replace every 400 hours and when performance decline is noticed or Diagnostic Trouble Code (DTC) is generated.

### SECONDARY FUEL FILTER (FT4/Stage IV Engine)

Replace every 400 hours and when performance decline is noticed or Diagnostic Trouble Code (DTC) is generated.

### ENGINE OIL FILTER (S760, S770) - [RE509672](#), (S780, S790) - [RE572785](#)

Minimum hours before first engine oil change is 100 Hours. Extended engine oil change every 500 hours or annually, whichever come first. The extended 500 hour interval is only allowed if using Plus-50™ II oil with a John Deere filter and diesel fuel with sulfur content less than 15mg/kg (15ppm). If all conditions are not met, change oil and filter at 250 hours of operation.

### ENGINE MAIN ENGINE GEARCASE FILTER (ProDrive™ Transmission)

Replace within first 100 hours and every 400 hours

### ENGINE DIESEL EXHAUST FLUID (DEF) DOSING FILTER

Replace every 4500 hours or every three years of operation, whichever occurs first.

### ENGINE DIESEL EXHAUST FLUID (DEF) TANK VENT FILTER (FT4/Stage IV Engine)

Replace every 250 hours and clean every 400 hours.

### FUEL TANK VENT FILTER

Clean every 250 hours and replace every 400 hours.

### ENGINE DIESEL PARTICULATE FILTER (DPF)

(S760, S770)  
[DZ100174](#)  
(S780, S790)  
[DZ100175](#)

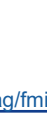
See your John Deere™ dealer or qualified service provider.

### ENGINE FUEL PRECLEANER FILTER

Inspect every 10 hours, clean every 50 hours and every 400 hours or when Diagnostic Trouble Code (DTC) is generated.

### HEAVY-DUTY FUEL PRE-CLEANER FILTER (OPTIONAL)

Back flush when bowl is half full or when Diagnostic Trouble Code (DTC) is generated. Clean after every fifth back flushing. Replace when light is no longer visible when filter is held up to light.



### HYDRAULIC/HYDROSTATIC/ TRANSMISSION HYDRAULIC RETURN FILTER (S760, S770)

Replace every 400 hours.

### ENGINE DEBRIS MANAGE- MENT AIR FILTERS (FT4/Stage IV Engine)

### PRIMARY [AXE42066](#)

Clean or change as required.

### SECONDARY [AXE42065](#)

Never clean the safety filter. Change if dirty. Change Secondary filter only with Primary filter. Change as required with Primary filter.



**JOHN DEERE**  
Genuine Parts and Service

# CAPACITIES

## S700 Series Combines S760, S770, S780, S790

### CAPACITIES (Approximate):

#### Fuel Tank:

S760, S770	950 L (250 gal)
S780, S790	1,250 L (330 gal)

#### Cooling System with Heater:

##### Cool-Gard™ II

S760, S770	53 L (14 gal)
S780, S790 (Tier 2/Stage II)	61.2 L (16.3 gal)
S780, S790 (Tier 3/Stage IIIA and FT4/Stage IV)	85 L (22.5 gal)

#### Engine Crankcase with Filter:

##### Plus-50™ II

S760, S770 (Tier 2/Stage II and FT4/Stage IV)	27.5 L (7.3 gal)
S760, S770 (Tier 3/Stage IIIA)	29 L (7.7 gal)
S780, S790 (Tier 2/Stage II and Tier 3/Stage IIIA)	39 L (10.3 gal)
S780, S790 (FT4/Stage IV)	43 L (11.4 gal)

#### Transmission (Mechanical Shift and Push Button Shift Machines):

##### GL-5

S760, S770	9.6 L (2.5 gal)
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#### Engine Gearcase with Transfer (Mechanical Shift and Push Button Shift Machines):

##### Hy-Gard™

S760, S770	21.3 L (5.6 gal)
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#### Engine Gearcase with Transfer (ProDrive™ Machines):

##### Hy-Gard™

S760, S770, S780, S790	51 L (13.5 gal)
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#### Final Drives:

##### GL-5

S760, S770, S780, S790	8 L (2.1 gal)
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#### Countershaft Drive Gearcase (Non-Multi-Speed):

##### GL-5

S760, S770, S780, S790	1.9 L (0.5 gal)
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#### Heavy-Duty Feeder House Reverser Gearcase without Cooler:

##### ISO VG 460 Fully Synthetic

S760, S770	2.3 L (0.6 gal)
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#### Heavy-Duty Feeder House Reverser Gearcase with Cooler:

##### ISO VG 460 Fully Synthetic

S760	3.5 L (0.9 gal)
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#### Extra Heavy-Duty Feeder House Reverser Gearcase without Cooler:

##### ISO VG 460 Fully Synthetic

S780, S790	3.6 L (0.9 gal)
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#### Extra Heavy-Duty Feeder House Reverser Gearcase with Cooler:

##### ISO VG 460 Fully Synthetic

S760, S770	4.9 L (1.29 gal)
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#### Multi-Speed Feeder House Reverser Gearcase with Cooler (Optional):

##### ISO VG 460 Fully Synthetic

S770, S780, S790	5.2 L (1.37 gal)
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#### Loading Auger Gearcase:

##### GL-5

S760, S770, S780, S790	3.8 L (1 gal)
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#### Two Speed Separator Drive Gearcase:

##### GL-5

S760, S770, S780, S790	4.7 L (1.24 gal)
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#### Diesel Exhaust Fluid (DEF) Tank (Final Tier 4/Stage IV):

##### John Deere™ Diesel Exhaust Fluid

S760, S770, S780, S790	52.2 L (13.8 gal)
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#### Premium Overshot Beater Gearcase (if equipped):

##### GL-5

S770, S780, S790	0.2 L (0.05 gal)
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#### Hydraulic / Hydrostatic Reservoir:

##### Hy-Gard™

S760, S770	31 L (8.2 gal)
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S780, S790	47 L (12.4 gal)
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