



West Virginia Purchasing Division

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The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header

List View

General Information Contact Default Values Discount Document Information

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Purchasing Division
 2019 Washington Street East
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**State of West Virginia
 Solicitation Response**

Proc Folder : 218619

Solicitation Description : Addendum No.01;Three Diesel Tractors for Game Management

Proc Type : Central Purchase Order

Date issued	Solicitation Closes	Solicitation No	Version
	2016-06-30 13:30:00	SR 0310 ESR06301600000006335	1

VENDOR
VS0000010061 LAWRENCE EQUIPMENT INC

FOR INFORMATION CONTACT THE BUYER
 Guy Nisbet
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Signature X **FEIN #** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Diesel farm tractor with canopy and front loader	1.00000	EA	\$28,900.000000	\$28,900.00

Comm Code	Manufacturer	Specification	Model #
25101901			

Extended Description : 65HP and front loader. Must be new (2016 or later model year). Please see attached specifications for additional requirements.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Diesel farm tractor and front loader	1.00000	EA	\$28,500.000000	\$28,500.00

Comm Code	Manufacturer	Specification	Model #
25101901			

Extended Description : 65HP and front loader. Must be new (2016 or later model year). Please see attached specifications for additional requirements.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Diesel farm tractor and front loader	1.00000	EA	\$28,500.000000	\$28,500.00

Comm Code	Manufacturer	Specification	Model #
25101901			

Extended Description : 65HP and front loader. Must be new (2016 or later model year). Please see attached specifications for additional requirements.



Bid Specifications

for

Farmall® A Series Tractors

June 2015

**BID SPECIFICATIONS
MODEL FARMALL A SERIES TRACTORS**

**All the following data is subject to production variations.
Dimensions and weights are approximate and may change at any time
without prior notice from Case IH.**

I. GENERAL

The Farmall A Series tractor must be new and a current production model. Manufacturer to supply a minimum 24 months Basic Warranty Full Coverage with a 2,000 hour maximum. All specifications advertised comply with SAE engineering standards.

II. SAFETY AND SECURITY

Unit to be equipped with a seat belt and meets SAE J1194 and OSHA 1928.52 specifications. Unit to be equipped with a Slow Moving Vehicle Emblem, neutral start safety switch, operator presence switch and must be equipped to meet latest federal safety standards.

III. WHEELBASE AND WEIGHT

Dimensions	Farmall 50A	Farmall 60A	Farmall 70A
Minimum Wheelbase – in. (mm)			
2WD Axle	96.4 (2450)	96.4 (2450)	96.4 (2450)
MFD Axle	97.6 (2478)	97.6 (2478)	97.6 (2478)
Minimum Overall Unballasted Weight – lbs. (kg) PRELIMINARY			
ROPS 2WD	3,770 (1710)	3,770 (1710)	3,770 (1710)
ROPS MFD	4,079 (1850)	4,079 (1850)	4,079 (1850)

IV. ENGINE

A three-cylinder diesel with a Bosch high-pressure common rail fuel injection system, turbocharger, and cooling fan is featured on this tractor. The tractor is air-to-air after cooled, has a parent bore block design, and has two valves per cylinder. Tier 4 B/Final emissions certified, through internal Exhaust Gas Recirculation (EGR), Diesel Oxidation Catalyst (DOC) and Particulate Matter Catalyst technology.

HORSEPOWER OUTPUT:

	Farmall 50A	Farmall 60A	Farmall 70A
Engine HP at 2,600 RPM	53 (39.5 kW)	60 (45 kW)	70 (52 kW)
PTO HP at 2,600 RPM	46 (34 kW)	51 (38 kW)	62 (46 kW)

IV. ENGINE (continued)

ENGINE DISPLACEMENT: 2.2L (135.9 cu in)

RATED ENGINE SPEED: Maximum of 2,600 RPM

AIR CLEANER: Dual element, dry type with serviceable outer element and replaceable inner safety element.

FUEL FILTER: Dual stage fuel filtration system with water/sediment separator followed by a paper filter element cartridge.

FUEL TANK: Minimum 17.1 gal (65 L).

FUEL TYPE: Standard diesel fuel. Manufacturer approved for biodiesel blends up to 100% (must meet ASTM D6751-09A standards)

LUBRICATION: Full flow pressure lubrication with spin on replaceable oil filter assembly. Minimum 300 hour Manufacturer recommended oil and filter change interval (when using Manufacturer approved oil and filter with ULSD fuel).

THROTTLE CONTROL: Hand operated base line throttle setting with a foot controlled override with spring return.

COLD START AID: Glow plugs.

V. TRANSMISSION

Standard. 8F x 8R with Synchronized Mechanical Shuttle.

GROUND SPEEDS:

Speed Chart	50A	60A	70A
8F x 8R w/Synchro Mechanical Shuttle			
Forward (mph)*	1.7 - 19.0	1.8 - 19.8	
Reverse (mph)*	1.8 - 20.1	1.9 - 20.9	

* Values at rated engine speed with 13.6 x 28 tires on 50A and 14.9x28, 8PR tires on 60A & 70A,

GEARS: Straight cut transmission gears.

SHIFTING: Right hand gear shift and left hand dedicated shuttle.

VI. CLUTCH

Organic/cerametallic, mechanical, 11 in. (279 mm) diameter.

VII. POWER TAKE OFF

The tractor shall have a standard independent 540 rpm system with mechanical engagement and a flip-up safety shield on the PTO. Optional 540E PTO is available.

VIII. FRONT AXLE (SPECIFY 2WD or MFD)

2WD: Inverted “U” axle design only;
Minimum track setting of 56 in. (1422 mm) and a maximum track setting of 77.6 in. (1972 mm), single steering cylinder, 11° of oscillation and 55° of turning angle. The 2WD front axle shall have a minimum unrestricted load capacity of 5,291 lbs. (2400 kg).

FWD: Minimum track setting of 61.3 in. (1558 mm) and a maximum track setting of 69.2 in. (1758 mm) with 9.5 – 24 front tires, single steering cylinder, 11° of oscillation and 55° of turning angle. FWD engagement shall be mechanical and the front differential lock shall be limited slip. The FWD front axle shall have a minimum unrestricted load capacity of 5,291 lbs. (2400 kg).

STEERING: Hydrostatic power steering with a dedicated, independent pump. Minimum flow rating of 5.5 GPM (21.0 L/min) at rated engine speed.

IX. REAR AXLE

The rear axle shall be flange type with a minimum unrestricted axle capacity of 7,936.6 lbs. (3600 kg). Minimum track setting of 52.6 in. (1336 mm) and a maximum track setting of 68.4 in. (1737 mm) with 13.6-28 or 14.9-28 tires. Minimum track setting of 56.6 in. (1438 mm) and a maximum track setting of 68.4 in. (1737 mm) with 18.4x24 R4 tires.

DIFFERENTIAL LOCK: Mechanically engaged differential lock.

X. BRAKES

MAIN: Hydraulically operated, oil immersed disc brakes with 3 plates per side. Must be able to operate each side independently or locked together for simultaneous operation.

PARKING: Foot controlled with pawl and ratchet locking device connected to the tractors service brakes.

XI. HYDRAULIC SYSTEM

Open center fixed displacement gear pump system. Minimum flow at rated engine speed shall be 11.9 gpm (45 L/min) from the pump for the rear remotes and 3-point hitch. The total hydraulic flow (power steering and hydraulic pump) shall be a minimum of 17.4 gpm (66 L/min.) at rated engine speed.

FILTRATION: One replaceable hydraulic filter with a minimum recommended change interval of 600 hours.

REMOTE VALVES: One, lever controlled open center load-sensing remote valve with float & detent. Second remote optional. Two mid-mount valves & joystick included in complete loader ready option.

XII. 3-POINT HITCH

Category II/I with flex link ends. Mechanical draft & position control (top link sensing) , telescoping stabilizers and right link turn collar leveling. Minimum lift capacity at 24 in. behind link ends to be 2701 lbs. (1225 kg).

XIII. DRAWBAR

Swinging drawbar

XIV. ELECTRICAL SYSTEM

Minimum Requirements:	110A-140A
System Voltage –	12 Volts
Battery –	950 CCA, 108 AH
Alternator –	120 Amps
3-pin, 40 amp implement socket, 7 pin trailer connector.	

LIGHTING: Meets ASAE S279.10

ROPS - Minimum requirement of two halogen front headlights and one rear work light. The tractor shall also have brake lights and flashing safety lights/turn signals. Meets ASAE S279.10

CIRCUIT PROTECTION: Individual electrical circuit fuses and relays.
All fuses are to be common automotive type.

XV. INSTRUMENTATION

Analog Digital Instrument Cluster (ADIC) instrumentation with gauges for engine RPM, fuel level, and coolant temperature, Digital display for engine hours, battery voltage, fuel rate, warning/error codes & vehicle menus. PTO engagement, turn signals, work lamps, high beams, engine stop indicator, warning indicator, parking brake indicator, engine air intake indicator, engine oil pressure warning, glow plugs active indicator, alternator charging warning indicator and particulate matter catalyst status indicator.

XVI. OPERATOR STATION

ROPS:

Isolation mounted, straddle platform with right-hand and left-hand transmission controls, left-hand shuttle control, tilt steering wheel, left and right side steps and a folding ROPS. Seat shall be mechanical suspension with vinyl cover, operator presence sensor, seat belt and arm rests. The tractor shall also have suspended pedals (brakes and clutch).

XVII. OPTIONS AND ACCESSORIES

Unless specifically noted, all listed options and accessories are additional cost.

HYDRAULIC SYSTEM

1. One additional rear remote valve

OTHER:

1. Engine Block Heater

XIX. WARRANTY

Extended warranty plans available (at additional cost) to cover selected engine, transmission, hydraulic system and electronic system components up to a total of 60 months or 5,000 hours from date of purchase. Specific list of covered components is available upon request.

Introducing 2015 Farmall A Series Tractors Tier 4 B/Final



**This is a Sales Education document
not to be used for advertising.**

Book: Tractors
Section: General
Form No.: TA-1413-14
Replaces: None
Date: November 2014

Introduction

The next generation of Farmall A Series tractors is available for ordering. These Tier 4 B/Final compliant workhorses offer the specifications necessary to meet the demands of the task, without exceeding the budget.

The new Farmall A series tractors feature a FPT 2.2L turbocharged and intercooled diesel engine, combining technologies including high pressure common rail fuel system, a Diesel Oxidation Catalyst, and a Particulate Matter Catalyst to optimize efficiency while meeting the stringent Tier 4 B/Final emissions mandates. Couple this to a 8F x 8R synchro-shuttle transmission, and you've got a tractor loaded with value for any operation.

Here is the Farmall A Series Tractors Lineup at a glance:

Model	Farmall 50A	Farmall 60A	Farmall 70A
Engine HP	53	60	70
PTO HP	46	51	62
Configuration	ROPS Only 2WD or MFD		
Engine	FPT 2.2L 3-cylinder turbo diesel Electronic High Pressure Common Rail Fuel System		
Emission Standard	Tier 4 B/Final		
NOx Reduction Method	Internal Exhaust Gas Recirculation		
Particulate Matter Reduction Method	Diesel Oxidation Catalyst (DOC) & Particulate Matter Catalyst		
Transmission	8F x 8R Mechanical Synchro-Shuttle		

2015 Enhancements

The Tier 4 B/Final Farmall A Series tractors feature several enhancements, including an all new engine and new styling, and they offer a complete loader ready option from the factory. In addition, all models will feature a synchro-shuttle, bringing ease to the constant shuttling during loader applications

Styling

- ✓ Clear lens headlights & shark gill vents match the rest of the Case IH family

FPT 2.2L Engine

- ✓ Tier 4 B/Final Compliant
- ✓ 3 Cylinder Turbocharged Diesel Engine
- ✓ Electronic High Pressure Common Rail Fuel System

Transmission

- ✓ Each model includes a column-mounted mechanical synchro-shuttle
- ✓ Provides easier shuttling during loader applications and greater reverse speed choices

Operator Area

- ✓ Column-mounted synchro-shuttle on all models
- ✓ New instrument cluster – same instrument cluster used on Farmall 100A, Farmall C CVT Compact, Farmall C Utility, and Farmall U!
- ✓ Loader control joystick relocated to the right of the operator seat for greater comfort and ergonomics

Hydraulics

- ✓ Increased standard hydraulic flow
- ✓ Standard single rear remote with float and detent

PTO

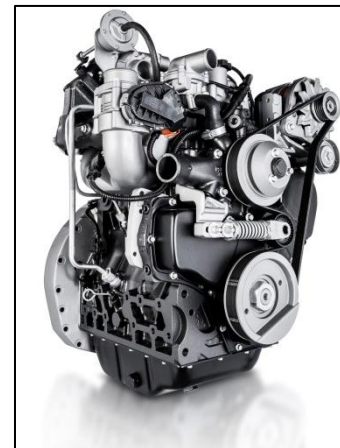
- ✓ New shiftable 540/540E PTO Option

Tires

- ✓ New R4 (industrial) tire offering

Complete Loader Ready Option

- ✓ Tractor can be ordered complete loader ready, with all loader components installed on the tractor, ready to pin-and-plug loader onto the tractor at the dealership!



Styling

A new hood with clear lens headlights and shark gill ventilation brings a modern look to the Farmall A series tractors, which reflects that of the rest of the Case IH Family.

Key Features:

- Clear lens headlights for improved lighting
- Shark gills for ventilation and styling
- Styling reflects the rest of the Case IH family
- Hood shape promotes visibility to loader bucket
- Easy-to-open, no tools required hood latch for easy opening hood, supported by a gas-strut
- Hood does not need to be raised to check engine oil



Customer Benefits:

- Lighting
- Ease of opening
- Visibility

Farmall Naming Structure

To simplify the Farmall business, a new naming structure is being implemented. In the past, the letter “B” seemed out of place in our letter philosophy. Tractors which are not in the “A”, “C”, or “U” series are considered specialty tractors.

Below is a reminder of the Farmall Naming Structure:



Farmall A

- No frills, economically priced tractors
- 50 to 70 and 110-140 HP
- 2WD and MFD
- Basic operator environments
- Basic transmission options
- Basic specifications to get the job done
- Basic utility or chore tractor for lighter duty jobs



Farmall C

- Deluxe line of tractors from compact to utility (30-55 HP, 75-115 HP)
- Cab/ROPS and MFD/2WD
- More features and operator conveniences
- Spacious, comfortable cab
- Electronic engines
- Better transmission options
- Some electronic control
- Option up or option down to meet customer needs



Farmall U

- Premium line of Farmall tractors available in 105 and 115 HP models
- Cab/MFD only
- For operators looking for the “ultimate Farmall experience”
- Expanded operator conveniences and additional electronic controls
- More advanced transmission options

FPT 2.2L Engine – Tier 4 B/Final

Innovation, performance, and constant improvement are the key drivers for our sister brand, Fiat Powertrain Technologies (FPT). Every engine is designed to fulfill the needs of off-road applications, adapting the most advanced technologies available. Thanks to an electronic high pressure common rail fuel system, fuel is precisely metered as power is demanded, delivering in both the areas of performance and fuel efficiency while meeting stringent Tier 4 B/Final emissions requirements.

This electronically controlled 2.2L engine has built upon its mechanical predecessors, experienced in agricultural applications.



Key Features:

- 3-Cylinder
- Wastegate Turbocharged
- Electronic High Pressure Common Rail Fuel System (Bosch)
- 2 valves per cylinder
- Cylinder head & piston design optimized for NOx reduction & fuel combustion
- Glow plugs cold starting aid
- Tunnel block design assures a rugged engine and easy engine maintenance
- Dual stage dry element air cleaner
- Tier 4 B/Final emissions compliant, using internal Exhaust Gas Recirculation (EGR), Diesel Oxidation Catalyst (DOC) and a maintenance-free Particulate Matter Catalyst
- 17.1 gallon (65 L) Fuel Tank
- 300 Hour Oil Change Interval



FPT 2.2L Engine – Tier 4 B/Final

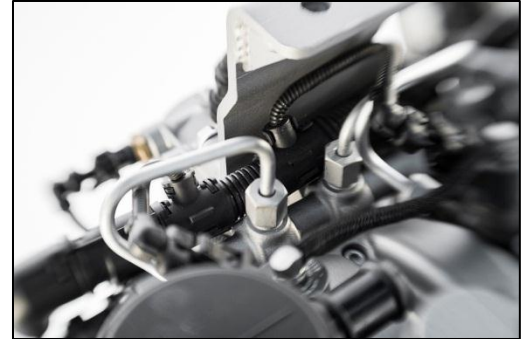
Electronic High-Pressure Common Rail Fuel Injection

Benefits

- Precise metering of fuel to deliver only as much fuel as is demanded for the application
- Improved throttle response
- Fast recovery to load
- Holds power & torque as it is lugged down
- Quieter operating engine with less vibration

Value

- Performance and fuel savings
- Engine builds power fast & maintains it as it is lugged
- Engine recovers from load fast, such as hitting a rock with a rotary cutter
- More comfortable



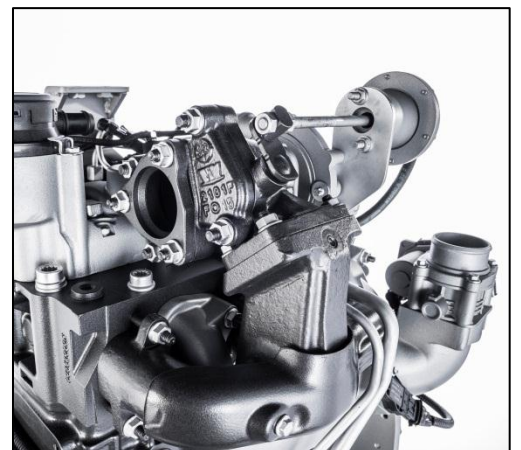
Wastegate Turbocharger

Benefit

- Smaller turbo used for low-end performance
- Wastegate opens at high boost PSI to allow exhaust to bypass the turbine
- This prevents damage at high RPM levels

Value

- Little turbo lag time
- Boost pressure maintained across engine RPMs



FPT 2.2L Engine – Tier 4 B/Final

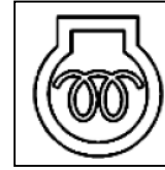
Glow Plugs

Benefits

- Diesel detonates under heat & pressure
- Cold air inhibits diesel engine startup
- Glow plugs preheat the air within the combustion chamber

Value

- Improved cold weather startup
- Less starter wear & tear



Glow plug indicator
on instrument
cluster

Structural Engine Block

Benefits

- Structural engines make up the frame of the tractor
- Added support strengthens the engine block

Value

- Engine can handle the twists, turns, & torque from off road agricultural applications without damaging the engine

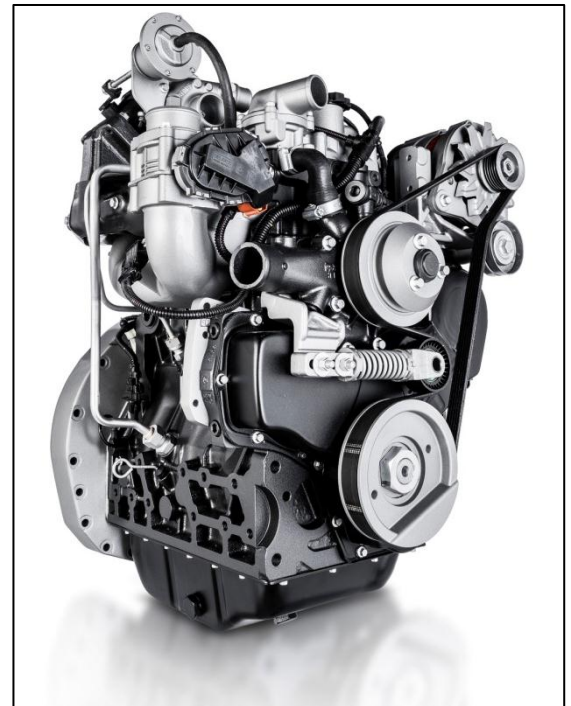
300 Hour Oil Change interval

Benefit:

- Service interval maintained from Tier 3 models
- Less downtime for regular maintenance

Value

- Lower operating costs

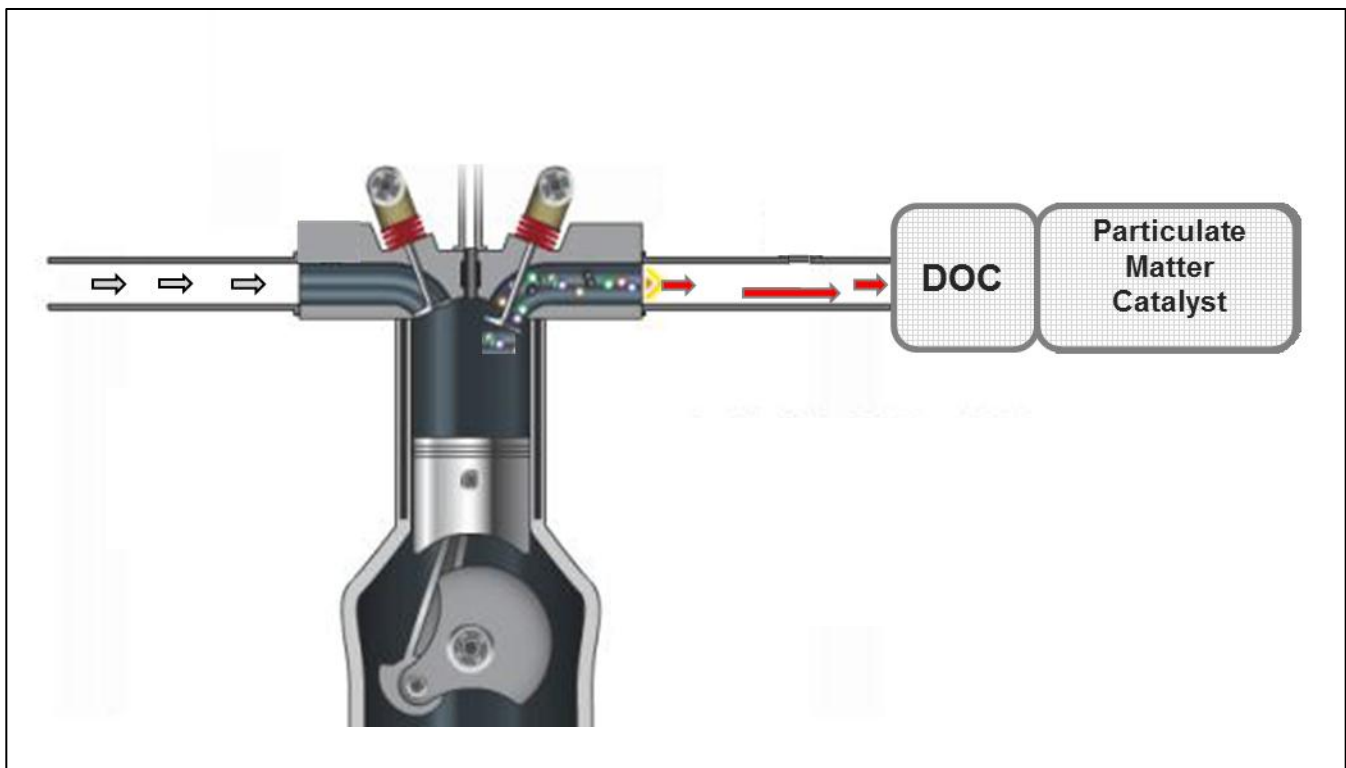


FPT 2.2L Engine – Tier 4 B/Final

Internal Exhaust Gas Recirculation (IEGR) with Diesel Oxidation Catalyst (DOC) and Particulate Matter Catalyst

This engine's block and cylinder-head is designed to minimize NO_x production, while combustion strategies minimize particulate matter. Additional particulate matter is then captured within the Particulate Matter Catalyst.

Diesel Oxidation Catalysts (DOC) are used by both CEGR and SCR emissions systems to break down hydrocarbons created during combustion. Since the NO_x is managed during engine combustion, DEF (Diesel Exhaust Fluid) is not required.



How Internal EGR/Particulate Matter Catalyst Works

1. An additional lobe on the camshaft allows the exhaust valve to open momentarily during the intake stroke.
2. The exhaust gas enters the combustion chamber, displacing oxygen.
3. Less oxygen leads to a cooler combustion temperature to minimize NO_x production.
4. The majority of the exhaust gas leaves the engine and travels through the DOC and the Particulate Matter Catalyst. The DOC neutralizes hydrocarbons created from combustion and the Particulate Matter Catalyst collects some of the PM. Chemical reactions within the DOC also optimize the Particulate Matter Catalyst to decrease the need for regeneration.

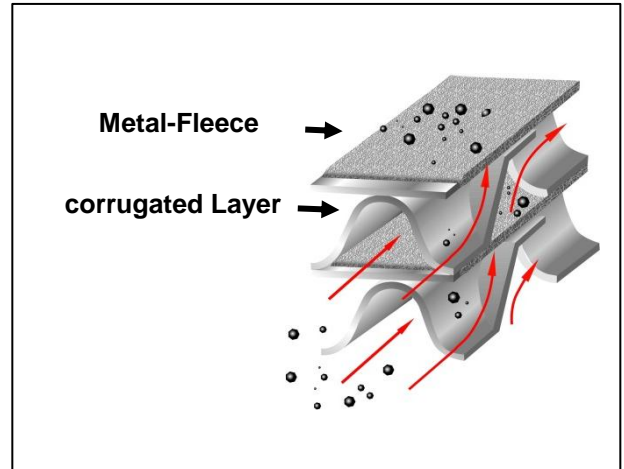
FPT 2.2: Engine – Emissions System

Particulate Matter Catalyst

The muffler of the Farmall C CVT Tier 4 B/Final tractor contains a Diesel Oxidation Catalyst (DOC) and a Particulate Matter Catalyst.

What is a Particulate Matter Catalyst?

A High Efficiency Flow Through Filter works based on an open flow to allow exhaust gases to pass through. It is made up of alternating layers of corrugated metal foil on a porous metal fleece. Because of the less stringent emissions regulations in this horsepower category, the filter can be open flow. The filter captures particulate matter long enough for catalytic oxidation. By design, a Particulate Matter Catalyst cannot plug up, creating no risk of an uncontrolled regeneration.



How does it work?

When Exhaust enters the DOC, many chemical reactions occur. Nitric Oxide (NO) gas enters the DOC to be oxidized to nitrogen dioxide (NO₂). When it enters the particulate matter catalyst, NO₂ oxidizes the particulate matter, creating a continuous, efficient, passive regeneration. This reaction occurs best between 220°C-480°C (428°F-896°F). The maximum inlet temperature is 600°C (1112°F). Exhaust temperatures at the muffler outlet are the same or lower than that of Tier 3 engines.

What if the exhaust isn't warm enough?

FPT designed a special engine management system for off road applications to maintain the efficiency of the particulate matter catalyst, even in situations such as prolonged idling, or low-load applications. During these scenarios, the engine management software will activate an exhaust temperature management mode to maintain the efficiency of soot abatement. In this mode, the exhaust gas temperature is controlled via management of multiple injections and control of the air system. This design enhances passive regeneration in low load conditions, and reduces the need for an incinerating regeneration.

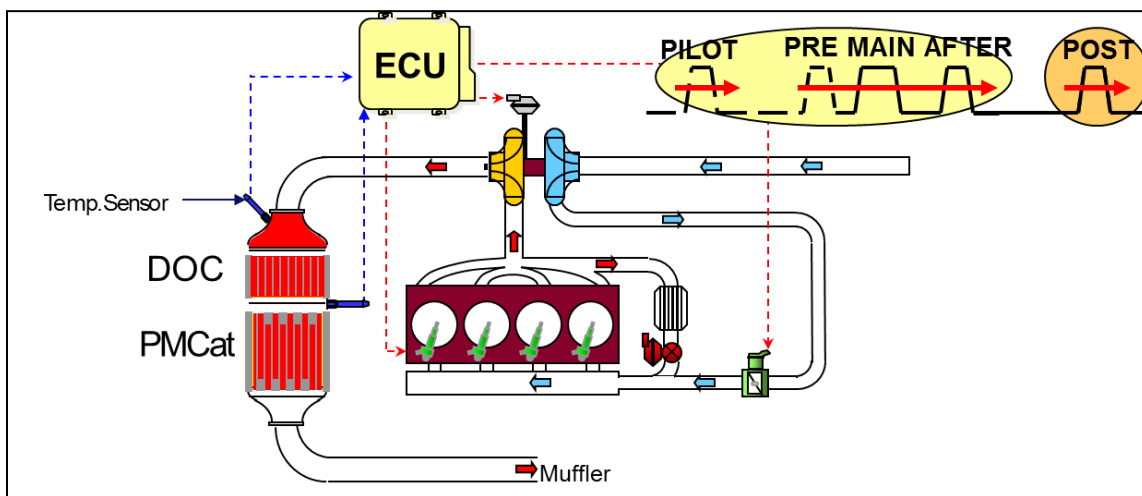


FPT 2.2L Engine – Tier 4 B/Final

Particulate Matter Catalyst - Continued

How is this different than a DPF?

A DPF is not a flow through filter. Unlike a DPF, there is no incinerating regeneration, providing fuel efficiency advantages over competitors that use a DPF. The Particulate Matter Catalyst does have a service interval for ash removal and replacement, however, this interval is greater than that of a DPF.



When the thermal management system is active, air is managed with the throttle valve and turbocharger and multiple injections are fired to maintain exhaust temperatures. Post, non-burning injections are fired when the particulate catalyst inlet temperature reaches its max of 600°C.

Customer Benefits:

- Faster throttle response and response & recover to load for better performance
- Maintenance free Tier 4 B/Final emissions System
- Longer oil service life
- Improved fuel efficiency

Operator Area

The Farmall A Series tractors now feature the same instrumentation as the other Farmall series tractors. The operator area is very similar to that of the previous generation of Farmall A series tractors, featuring ROPS, a slight straddle deck, vinyl seat, cup holder, and toolbox.

Instrumentation:

- Consistent with Farmall C CVT, Farmall C Utility, Farmall U, and Farmall 100A
- Analog gauges with a LCD screen
- **Analog gauges:**
 - Fuel level
 - Tachometer
 - Engine coolant temperature
- **Warning Indicators**
 - Battery
 - PTO engagement
 - Parking brake engagement
 - Work lamps & turn signals
 - High beams
 - Oil pressure
 - Engine stop warnings
 - Glow plug indicator
 - Low fuel level
 - Engine thermal management system active
- **Digital LCD Indicators:**
 - PTO Speed
 - Indications for engine faults
 - Air filter blockage
 - Alternator charging failure
 - PTO fault indication
 - Operator absence error
 - Handbrake not release



Controls

- Easy to reach controls
- Hand parking brake
- Foot pedal activated differential lock

Customer Benefits:

- Instrument cluster is consistent with that of most other Farmall tractors – modern, simple, and easy to use, and easy to read
- Controls placed within reach of the operator for greater comfort and productivity
- Shuttle on all models decreases cycle time during loader applications

Axles

2WD Front Axle:

- Inverted “U” axle design
- 8,818 lbs. (4000 kg) restricted (dynamic) axle capacity
- 5,291 lbs. (2400 kg) unrestricted (static) axle capacity
- **Turning radius** of 122 in. (3100 mm) without brakes
- **Turnaround diameter** of 284.3 in. (7220 mm) without brakes
- **Track widths** from 56 in. (1424 mm) to 77.6 in. (1972 mm) with adjustable rims and axle (7.5-16SL front tires)



MFD Front Axle

- Mechanically engaged
- Limited slip differential
- 8,818 lbs. (4000 kg) restricted (dynamic) axle capacity
- 5,291 lbs. (2400 kg) unrestricted (static) axle capacity
- **Turning radius** of 190.9 in. (4850 mm) without brakes
- **Turnaround diameter** of 394.5 in. (10020 mm) without brakes
- **Track widths** from 61.3 in. (1558 mm) to 69.2 in. (1758 mm) (9.5 – 24 front tires)
- **Track width** of 60.3 in. (2532 mm) with 12.5x18 R4 front tires



Rear Axle:

- Planetary rear axle with flange hubs
- **Mechanically engaged differential lock**, with a foot-pedal
- **Capacity** of 7936.6 lbs. (3600 kg)
- **Flange to Flange** distance of 53.9 in. (1368 mm)
- **Track widths:**
 - 13.6-28 and 14.9-28 : 52.6 in. (1336mm) to 68.4 in. (1737 mm)
 - 18.4x24 R4: 56.6 in. (1438 mm)
- Multi-plate wet brakes



Customer Benefits:

- Customer can choose between a 2WD or MFD tractor, adding to the value and versatility of this tractor series
- Limited slip front differential provides extra traction during slippery conditions

Transmission

The Farmall A Series tractors will offer the same proven transmission found in the previous Farmall 45A and Farmall 55A tractors.

Key Features:

- 8F x 8R mechanical transmission
- Mechanical synchro-shuttle located on the steering column
- High-Low Range selection lever on the left side of the operator seat
- 1-4 Speed selection is an H-Pattern, with the selector on the right side of the operator seat
- Farmall 50A-60A features a 11" dry clutch made of an organic material
- Farmall 70A features an 11" cerametallic 5-pad dry clutch for additional power transfer



Shuttle located near steering column

Range Selector –
High or Low



H-Pattern Speed
Selector
Gears 1-4

Customer Benefits:

- Proven transmission used in the prior Farmall 45A-55A
- Shuttle decreases cycle time during loader applications
- Simple control layout, within the reach of the operator area

Hitch, Hydraulics & PTO

	Feature	Description
Drawbar	<ul style="list-style-type: none"> Swinging drawbar 	
3-Point Hitch	<ul style="list-style-type: none"> Category II/I Lift capacity of 1896. (1225 kg) 24 inches behind pins Right hand link turnbuckle adjustment Telescopic lower links Telescopic stabilizers Draft & Position Control 	<ul style="list-style-type: none"> Telescopic lower links and telescopic stabilizers lead to easier implement attach/detach – allowing the customer to spend more time doing work, and less time attaching implements.
PTO	<ul style="list-style-type: none"> Std. 540 Opt. 540E PTO Dry clutch, mechanical engagement with a lever to the left of the operator seat PTO speed displays on instrument cluster 	<ul style="list-style-type: none"> Standard 540 RPM (6 spline, 1 3/8" shaft) powers rear mounted implements 540 PTO RPM achieved at 2575 engine RPM In 540E mode, 540 PTO RPM is achieved at 2016 engine RPM – fuel saving option!
Hydraulics	<p>Dual gear pump</p> <ul style="list-style-type: none"> 11.9 GPM (45L/min) implement pump 5.5 GPM (21.0 L/min) steering pump <p>Remotes</p> <ul style="list-style-type: none"> 1 rear remote standard <ul style="list-style-type: none"> Float & Detent 2nd remote optional <ul style="list-style-type: none"> Kick-out detent Two mid-mount valves & joystick included in complete loader ready package 	<ul style="list-style-type: none"> Optional remotes add to the versatility of these tractors

Customer Benefits:

- Standard features such as telescopic lower links and telescopic stabilizers lead to less time hooking and unhooking implements, and more time using them!
- Optional shifttable 540/540E PTO provides a fuel saving option for less demanding applications

NEW! L545/L555 Loader

Redesigned Value Loader

The Farmall A series tractors can now be equipped with the new L545 loader. This loader replaces the L530/L540 loader.

New features for the L545/L555 Loader for Farmall A:

- Loader mounting brackets are common with L705 Series Premium loaders, simplifying dealer stocking
- Available in Non Self-Leveling or Mechanical Self-Leveling
- Available with Euro or Skid-Steer style tool carriers
- Flat-faced Quick-Disconnect hydraulic hoses

Continuing Features:

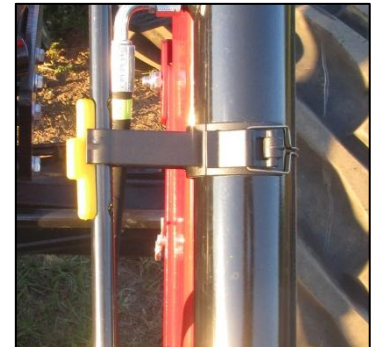
- Double “C” channel loader arm for structural strength and streamlined appearance.
- Superior visibility through the loader cross tube and loader arm
- Integrated Parking Stands for quick attach/detach times
- Large bearing surface for on subframe for longer loader life
- Compact bucket level indicator is easy to calibrate



Available Euro-Style tool carrier



Standard Flat-Faced Quick-Disconnect Hoses



Standard compact bucket level indicator

Customer Benefits

- New options like Euro-style tool carrier and Mechanical Self-Leveling add to the loader offering
- Easy loader and attachment attach/detach procedures to save time

Complete Loader Ready Option

Complete Loader Ready is a Factory Installed Option

Farmall A tractors are available to be ordered Complete Loader Ready from the factory. Upon arrival at the dealership, it is “pin-and-plug” ready. Simply drive the tractor into the loader, put in the pins, plug in the hydraulics, and start doing work!

Loader components included in standard equipment

- Loader Mounting Brackets
- Joystick & Controls
- Mid-Mount Valves & Hose Kits
- Grill Guard

To equip with a loader, order:

- L545 or L555 loader and bucket for Farmall A pricebook



Preliminary Specs	L545		L555	
	NSL	MSL	NSL	MSL
Version				
Lift Capacity to max height	1565 lbs. (710 kg)	2205 lbs. (1000 kg)	1940 lbs. (880 kg)	2734 lbs. (1240 kg)
Lift Capacity to 59 in.	2205 lbs. (1000 kg)	2623 lbs. (1190 kg)	2712 lbs. (1230 kg)	3131 lbs. (1420 kg)
Max Lift Height	106 in. (2680 mm)		105 in. (2667 mm)	
Dump Angle at Full Height	47 degrees		53 degrees	
Rollback Angle at Ground	31 degrees		45 degrees	
Bucket	73” Standard or HD Material Bucket			
Bucket struck capacity	0.61 cu yd.			
Bucket heaped capacity	0.78 cu. yd.			

*All capacities measured 31.5 in (800 mm) ahead of pivot pin

*Loader specifications are subject to change and may vary based on tractor model, hydraulic system and tire size

Customer Benefits

- All models are available for ordering as complete loader ready, simplifying the product offering
- Loader components included in base price of the unit
- Simple loader ordering & attaching

Weight & Ballast Options

The Farmall A Series Tractors offer several weighting packages to properly ballast the tractor for three point hitch or for loader applications. In addition, three-point hitch mounted ballast boxes are available for loader applications, providing additional stability, lessening the mechanical stresses on the tractor's front axle.

Front Weight Options:

- **No front weights or carrier**
- **Weight carrier only** – 44 lbs. (20 kg)
- **Front weight carrier with 4 weights**
- 44 lbs. (20 kg) carrier with 4-66 lb. (30 kg) weights – 308 lbs. (140 kg) total weight
- **Front weight carrier with 6 weights:**
44 lbs. (20 kg) carrier with 6-66 lb. (30 kg) weights – 440 lbs. (200 kg) total weight



Rear Wheel Weight Options:

- **No rear weights**
- **1-88 lb. (40 kg) weight per side** -176 lbs. (80 kg) total weight
- **2-88 lb. (40 kg) weights per side** -352 lbs (160 kg) total weight
- **1-121 lb. (55 kg) weight per side** - 242 lbs. (110 kg) total weight (R4 tires only)

Ballast Box

- Ballast boxes can be ordered from the loader pricebook for additional stability and to lessen the mechanical stresses on the front axle during heavy loader use.



Customer Benefits

- Several weighting and ballasting packages are available
- Proper weight and balance ensures optimal weight transfer for traction, stability, and ultimately productivity

Factory Installed Options & Accessories

There are several options & accessories available from the factory for the Farmall A series tractors, including:

Tire Options

- R1 Ag Tires
- R4 Industrial Tires



R1 - Bar Tread
Standard traction for agriculture application



R4 - Industrial-tread
Excellent utility tread; gives long life on hard surfaces like pavement and provides a smoother ride while roading.

Exhaust

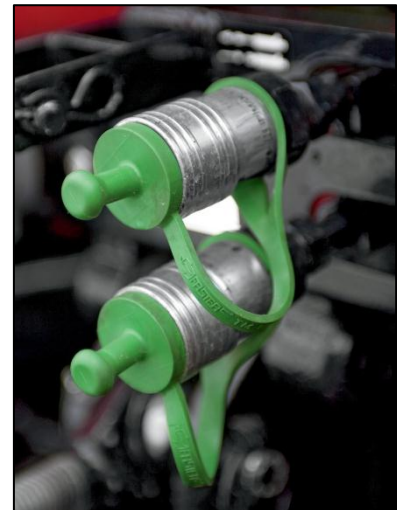
- Choose from vertical or downswept

Rear Remotes

- **1 remote** – includes float position and detented positions
- **2 remotes**– includes 1 remote with float & detents, and 1 remote with kick-out detent

PTO

- **540 RPM PTO** included in standard equipment
 - 540 PTO RPM achieved at 2575 engine RPM
- **540/540E PTO**
 - In 540E mode, 540 PTO RPM is achieved at 2016 engine RPM
 - Fuel saving option for less demanding PTO applications
 - Shiftable between 540 and 540E



Customer Benefits

- Several tire sizes are available, with both R1 or R4 tread patterns from the factory
- 1 remote standard, or add a second for greater versatility
- Optional 540/540E shiftable PTO provides a fuel saving option

Additional Photos



Key Selling Advantages

- ✓ **Simple** tractor, with features for **performance**, **value**, and **versatility** to cost-effectively compete in the utility tractor market
- ✓ **Standard Features** include toolbox and cup holder
- ✓ Standard **synchro-shuttle** on all models for more reverse speeds and easy shuttling
- ✓ **FPT Engine** – just like the rest of the Case IH family



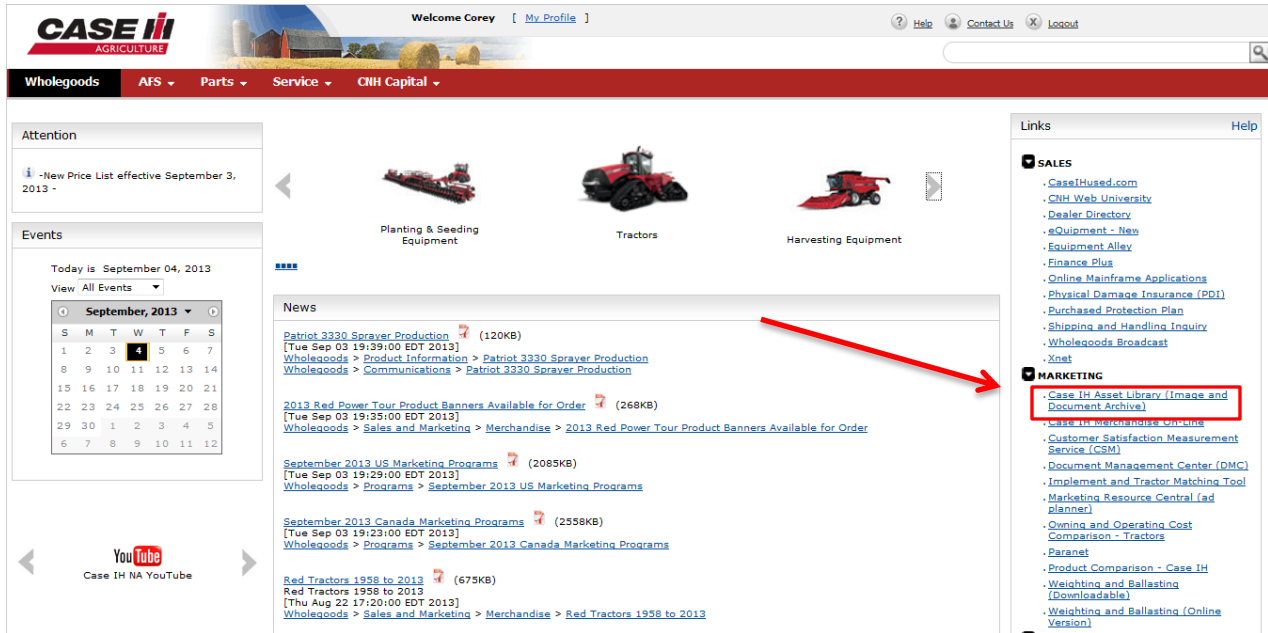
Specifications

	Farmall 50A	Farmall 60A	Farmall 70A
Engine			
Type	3-cylinder FPT Turbocharged and Intercooled		
Displacement cu. in. (L)	2.2L (135.9 cu. in)		
Gross engine HP (@2600 RPM)	53	60	70
PTO HP	46	51	62
Emissions	Tier 4 B/Final		
NOx Reduction Method	Cylinder head design & internal EGR		
Particulate Matter Reduction	DOC with Particulate Matter Catalyst		
Fuel Capacity Gallons (Liters)	17.1 (65)		
Transmission Options			
Standard	8F x 8R Mechanical Shuttle, Dry Clutch		
3-Point Hitch			
Lift Capacity @ 24" lbs. (kg)	2701 (1225)		
PTO			
Base PTO speeds rpm	540 at 2575 eRPM		
Opt PTO	540E (540 PTO RPM @ 2016 eRPM)		
Hydraulics			
System Type	Open Center		
Pump type	Engine driven dual gear-type		
Base mid-mount remotes	0, Opt 2 w/ ldr ready		
Base rear remotes	1		
Optional rear remotes	2		
Main pump flow gpm (L/min)	11.9 (45)		
Steering pump	5.5 gpm (21 L/min)		
Dimensions 2WD / 4WD			
Overall length in. (mm)	129.5 (3290) / 134.0 (3404)		
Overall width in. (mm)	67.5 (1714)		
Overall height in. (mm)	92.7 (2365) / 97.4 (2473)		
Wheelbase in. (mm)	96.4 (2450) / 97.6 (2478)		
Turning Radius in. (mm)	135.8 (3450) / 190.9 (4850)		
Turnaround diameter in. (mm)	284.3 (7220) / 394.5 (10020)		
Weight lbs. (kg) (preliminary)			
Average Weight, 2WD	3770 (1710)		
Average Weight, MFD	4079 (1850)		

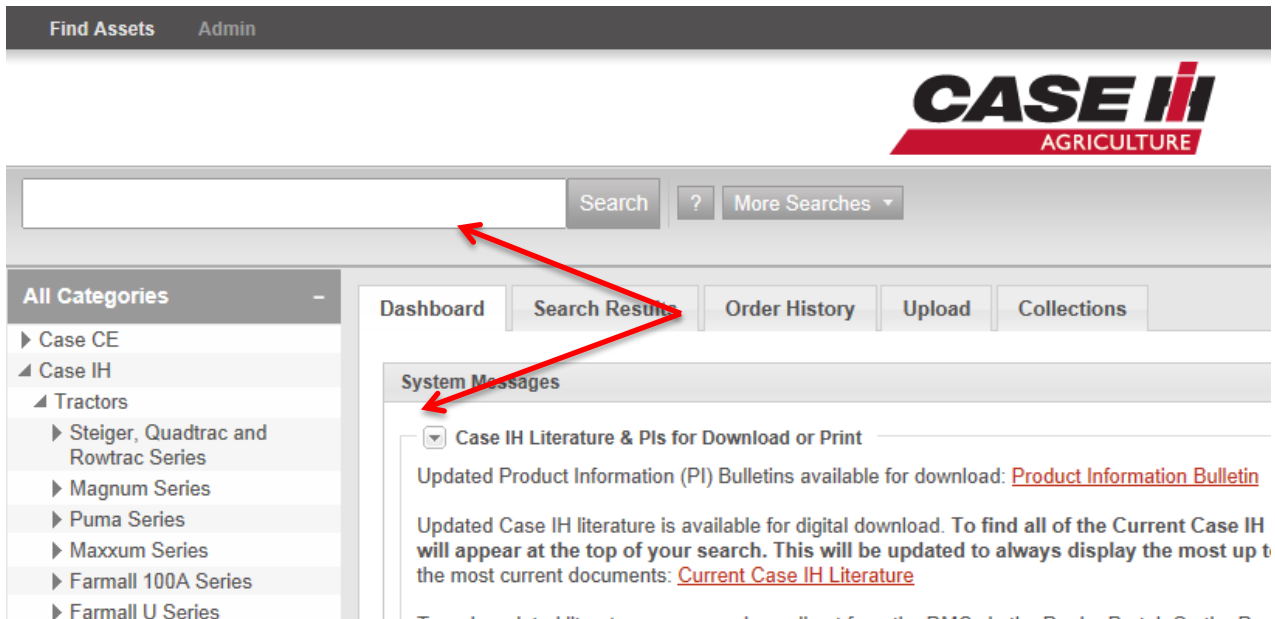
To Find More Information (1 of 3)

All Product Information bulletins are available for viewing or download on our **Asset Library**. To access:

1. Login to the Dealer Portal
2. Click on the Case IH Asset Library link on the right side toolbar

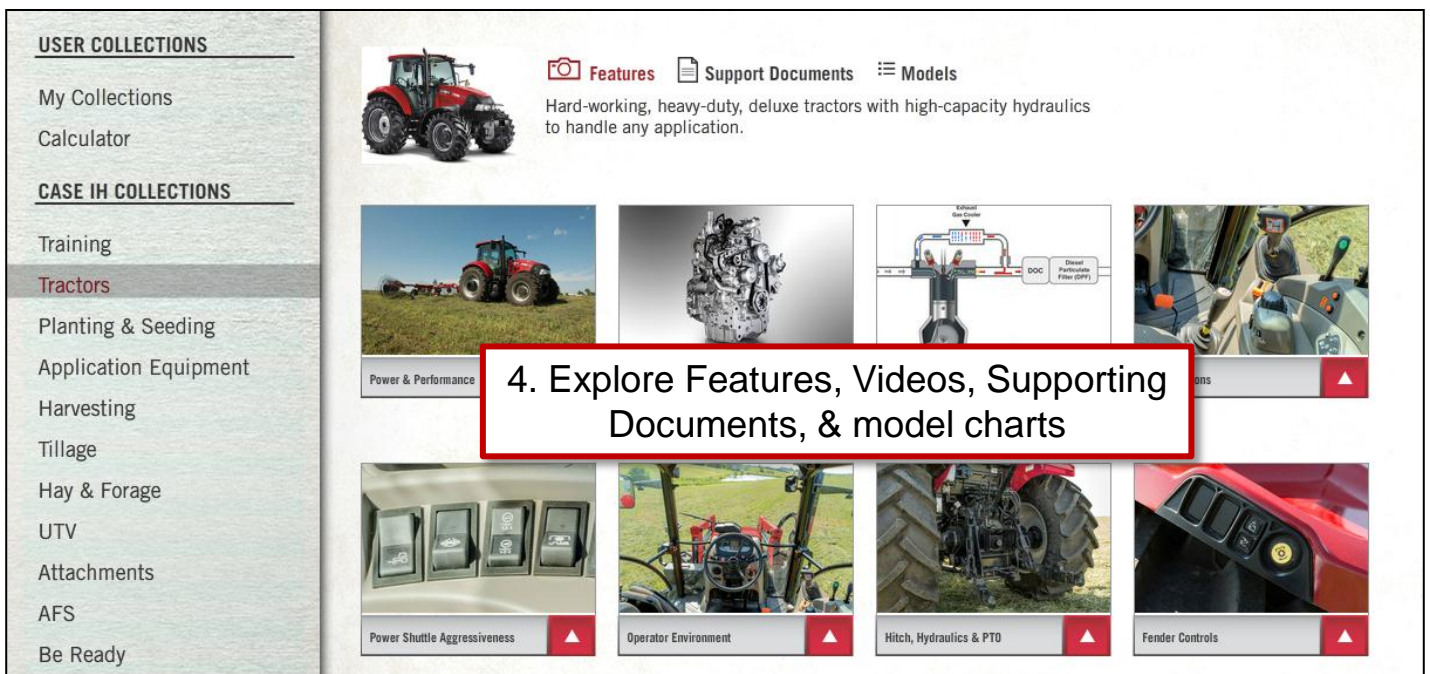
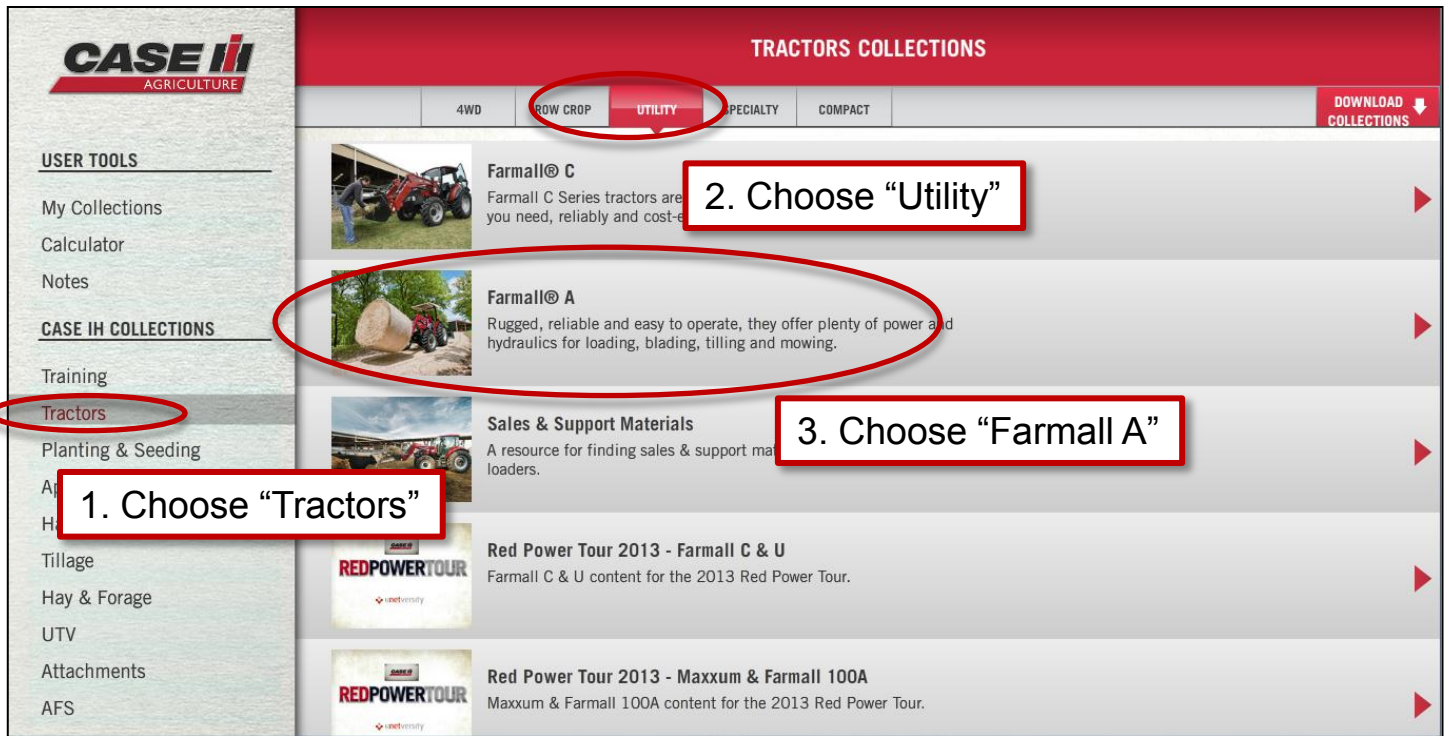


Use the search box to find the PIs. Searching by the PI number (i.e TA-1298-11), should bring you directly to PI. You can also use the options on the left to find assets or to refine your results.



To Find More Information (2 of 3)

Current product information bulletins can be found on the Case IH Retail Sales App, available for Android tablets, Apple iPad, Windows Tablet and Windows desktop platforms. Visit www.caseihappstore.com to request access and download your copy.



To Find More Information (3 of 3)

Farmall General:

TA-1385-14 Case IH Tractor Lineup

TA-1371-14 Sales & Support Materials for Farmall Tractors and Loaders

TA-1364-14 Farmall Line 2014 Overview

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Specification Comparison

Item	Description	CaseIH Specs	Bid Specifications	Exceeds Specs
3.1.1.4	Engine Horespower	70	65	5 hp
3.1.1.5	PTO Horsepower	61	48	13 hp
3.1.1.6	Transmission	16 (8F+8R)	12 (9F+3R)	4 gears
	Max speed forward	19.8 mph	17.4 mph	2.4 mph
3.1.1.7	Hydraulic pump	11.9	11.4	0.5 gpm

Description of loader specifications are insufficient to determine if equal.