

#### **Ring Power Corporation**

500 World Commerce Parkway St. Augustine, FL 32092

Prepared For: 8/5/2020

Florida Sheriff's Association

#### Item #66: (1) NEW CATERPILLAR 316F HYDRAULIC EXCAVATOR

#### **CONTRACT DETAILS**

Florida Sheriff's Association

Bid # FSA20-EQU18.0

Item #66: Group: Hydraulic Excavator - 38,000 LB and Options Contract Dates: October 1, 2020 through September 30, 2023

#### **BID SPECIFICATION:**

1. <u>WEIGHT:</u> a. Minimum operating weight - 38,000 lbs 2. <u>ENGINE:</u> a. Turbocharged diesel engine 113 hp b. Spin on filters c. Two stage air cleaner 3. <u>TRAVEL SYSTEM:</u> a. Travel speed of 3.2 mph 4. <u>HYDRAULIC SYSTEM:</u> a. Standard auxiliary hydraulic valve b. main hydraulic system flow 72 GPM minimum 5. <u>UNDERCARRIAGE:</u> a. Overall track length 12' 10" minimum b. Overall track width 8'5" minimum c. Shoe width 24" 6. <u>OPERATING STATION:</u> a. Cab to be air conditioned, heated and pressurized filtration system b. Intermittent windshield wipers c. Opening front windshield d. Vibration dampening cab mount e. Adjustable suspension type operator seat with safety belt f. Work lights

#### **BASE MACHINE**

538-9237	316F L HEX AM-N BCF1
427-9701	316F L HEX
430-8467	CONTROL, FINE SWING
432-1340	AIR CONDITIONER
352-7158	ACCUMULATOR WITH CRN
488-6543	SEAT BELT, 51MM (2") RETRACTABLE
360-6166	ALARM, TRAVEL
372-9524	CAB-ROPS,70/30,W/VANDAL-G BOSS
340-6667	HATCH, OPENABLE ROOF (DUAL)
496-8191	RADIO, 24V AM/FM
134-8875	GUARD, SWIVEL
291-7730	LIGHT, BOOM RIGHT SIDE
453-7538	SEAT, H-BACK, W/HEATER,S/AIR
319-1179	LIGHTING, CAB (HALOGEN)
333-3007	TRAVEL MOTOR, BIO OIL CAPABLE

342-3202	BATTERY, COLD WEATHER	
342-3636	WIPER-RADIAL, FRONT 70/30	
346-7396	WASHER, WINDSHIELD UPPER	
369-0145	PANEL, STD START SWITCH	
385-3234	LINKAGE, BKT W/O LIFT	
426-0308	ENGINE HOOD, HIGH AMBIENT	
426-2491	TANK, FUEL, STANDARD	
427-9710	CAMERA, REAR VIEW, MIRRORS(RH)	
447-1667	FAN, FIXED SPEED	
381-8971	CYLINDER, BKT	
457-1770	REACH BOOM HD PKG	
490-8975	STICK, R 10' 2" HD	
430-8472	AIR CLEANER, STANDARD	
340-8211	TRACK, 28" TG W/ STEP (GLT)	
346-7203	GUARD, TRACK GUIDING, CENTER	
510-3658	JOYSTICK STANDARD STP PKG	
502-1373	LINES, BKT CLOSE PGQC	
499-2012	MACHINE SOFTWARE	
426-0304	GUARD, BOTTOM HD	
427-9715	DECALS, EXTERIOR ANSI	
504-9465	DECALS, CAB ANSI	
460-1148	PRODUCT LINK, CELLULAR PL641	
349-2233	CHANGER, HAND CTRL 2-WAY (ANSI)	
426-2534	COUNTERWEIGHT, 6,170LBS	
0P-3380	INSTRUCTIONS, ENGLISH	
504-1097	CTRL,CAT PIN GRAB COUPLER ANSI	
397-8306	LINES-QC, REACH 16' 9" BOOM	
262-3239	LINES-QC, REACH 10' 2" STICK	
552-8152	BKT GD 48", 1.19 YD3 315	
380-1204	SIDE CUTTER, GENERAL PURPOSE	
505-4083	TIP, PENETRATION PLUS ADVANSYS	

Ring Power Corporation



### Cat® 316F L

*Hydraulic Excavator* **2017** 

The Cat® 316F L is a perfect choice for customers who value versatility, reliability, durability, and maximum efficiency.

#### **Performance**

- The C4.4 ACERT™ U.S. EPA Tier 4 Final/EU Stage IV engine is powerful and efficient, and it can run on biodiesel up to B20.
- Advanced control automatically manages pump and engine speed for maximum efficiency.
- Two power modes, high power and eco mode, help you actively manage fuel consumption.
- Engine idle shutdown saves fuel, reduces emissions, and extends service intervals.

#### **Versatility**

- Site prep and finishing work are quick and easy with a wide range of Cat work tools.
- Utility work is fast and flawless with a Cat bucket and compactor.
- A coupler lets you swap between attachments in seconds without leaving the cab.
- See the whole more profitable attachment line for your machine at www.cat.com/attachments.

#### Comfort

- The roll-over protective structure (ROPS) certified cab is quiet and comfortable.
- Automatic climate control helps maintain consistent cab temperature.
- Joystick consoles and armrests are adjustable.
- Seats are adjustable and feature air suspension with an optional heater in Europe, Australia, New Zealand and Pacific Islands.
- The LCD monitor is easy to navigate and programmable in 42 languages.

#### Serviceability

- Many routine service and maintenance points can be accessed from ground level reducing the time taken to check and service your machine.
- Wide service doors make for easy access.
- Filters are grouped to reduce service time.
- The cooling package is designed to prevent plugging, make blowing off debris easy.

#### **Technology**

- Cat Connect technology improves job site efficiency.
- Optional Cat Grade Control helps you create a level base and precise slope with ease.
- Product Link™/VisionLink® connects owners to the machine, providing access to location, hours, fuel consumption, idle time, events, and diagnostic codes.

#### **Durability**

- The large swing bearing is secured with elongated bolts to help handle the most swing-intensive work.
- Robot welded, Caterpillar designed boom and sticks are built for long service.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.

#### Safety

- The hydraulic activation lever locks out all hydraulic functions.
- Handrails, anti-skid plating, and countersunk bolts reduce slipping and tripping.
- A ground-level engine shutoff switch shuts down the engine in case of emergency.
- · Standard rearview camera and mirrors enhance visibility.
- The side-view camera enhances visibility on the boom side of the machine to help make operators more effective and efficient.



#### Cat® 316F L Hydraulic Excavator

Engine			
Engine Model	Cat C4	.4 ACERT	
Net Power - SAE J1349/ISO 9249	88 kW	117 hp/118 PS	
Net Power – ISO 14396	91 kW	122 hp/123 PS	
Gross Power – SAE J1995	91 kW	122 hp/123 PS	
Bore	105 mm	4.13 in	
Stroke	127 mm	5.00 in	
Displacement	4.4 L	269 in <sup>3</sup>	

 The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430).
The system contains 1 kg of refrigerant which has a CO<sub>2</sub> equivalent of 1.43 metric tonnes.

Hydraulic System			
Main System – Maximum Flow (total)	300 L/min	79 gal	
Maximum Pressure – Equipment	35 MPa	5,076 psi	
Maximum Pressure – Travel	35 MPa	5,076 psi	
Maximum Pressure – Swing	25 MPa	3,626 psi	
Pilot System – Maximum Flow	25 L/min	6.6 gal/min	
Pilot System – Maximum Pressure	4120 kPa	598 psi	

Drive		
Maximum Travel Speed	5.3 km/h	3.3 mph
Maximum Drawbar Pull	156 kN	35,070 lbf

Machine Weights		
Operating Weight*	17 700 kg	39,029 lb
*5.1 m(16'9") reach boom, 2.6 m (8'6") stick and 700 mm (28") track shoes, with 0.76 m³ (0.99 yd³) GD bucket		

Sw	ing	
Swing Speed	8.9	rpm
Swing Torque	49.6 kN⋅m	36,582 lbf-ft

Service Refill Capacities			
Fuel Tank Capacity	290 L	76.61 gal	
DEF Tank Capacity	20.5 L	5.4 gal	
Cooling System	26 L	6.9 gal	
Engine Oil (with filter)	13.5 L	3.57 gal	
Swing Drive	8 L	2.11 gal	
Final Drive (each)	8 L	2.11 gal	
Hydraulic System (including tank)	121 L	31.96 gal	
Hydraulic Tank	106 L	28.00 gal	

Sound Performance		
ISO 6396 – Operator Sound Pressure Level	71 dB(A)	
Exterior Sound Power Level	102 dB(A)	

Dimensions*		
Reach Boom – 5.1 m (16'9")		
Stick	R2.6 m (8'6")	
Shipping Height	3050 mm	10'2"
Shipping Length	8570 mm	28'1"
Tail Swing Radius	2500 mm	8'2"
Length to Center of Rollers	3170 mm	10'0"
Track Length	3970 mm	13'0"
Ground Clearance	440 mm	1'5"
Track Gauge	1990 mm	6'6"
Transport Width – 700 mm (28") Shoes	2690 mm	8'10"
Cab Height	2890 mm	9'6"
Cab Height with Top Guard	3100 mm	10'2"
Counterweight Clearance	1010 mm	3'4"

Working Ranges*		
Reach Boom – 5.1 m (16'9")		
Stick	R2.6 m (8'6")	
Maximum Digging Depth	6090 mm	20'0"
Maximum Reach at Ground Level	8780 mm	28'10"
Maximum Cutting Height	8920 mm	29'3"
Maximum Loading Height	6280 mm	20'7"
Minimum Loading Height	2300 mm	7'6"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5870 mm	19'4"
Maximum Vertical Wall Digging Depth	4960 mm	16'3"

Bucket & Stick Forces*			
Reach Boom – 5.1 m (16'9")			
Stick R2.6 m (8'6")			
Bucket Type	General Duty Bucket		
Bucket Digging Force (SAE)	98 kN	22,000 lbf	
Bucket Digging Force (ISO)	111 kN	25,000 lbf	
Stick Digging Force (SAE)	77 kN	17,310 lbf	
Stick Digging Force (ISO)	80 kN	18,000 lbf	

<sup>\*</sup>With a  $0.76 \text{ m}^3$  ( $1.00 \text{ yd}^3$ ), 900 mm (41") bucket.

 $For more \ complete \ information \ on \ Cat \ products, \ dealer \ services, \ and \ industry \ solutions, \ visit \ us \ on \ the \ web \ at \ www.cat.com$ 

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 $Materials \ and \ specifications \ are \ subject to \ change \ without \ notice. Featured \ machines \ in \ photos \ may \ include \ additional \ equipment.$  See your Cat dealer for available options.

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AEXQ1911-01 Replaces AEXQ1911 (AUZ, EU, NACD)





Effective with sales to the first user on or after January 1, 2018

# CATERPILLAR LIMITED WARRANTY

Earthmoving, Construction, Material Handling, Forestry and Paving Machines

# Worldwide

Caterpillar Inc. or any of its subsidiaries ("Caterpillar") warrants the following new products sold by it to be free from defects in material

- Earthmoving, construction, material handling, forestry and paving machines (except as listed below).
- Attachments/work tools installed on such machines prior to delivery another manufacturer's warranty). Hammer tool points and (unless covered by the Cat® Work Tool warranty statement or compacting plates used on hydraulic hammers are not warranted.

Additional warranties are applicable against breakage for certain Cat Ground Engaging Tools and for wear on all landfill compactor tips. Refer to the applicable warranty statements for coverage detail.

This warranty does not apply to:

- Mobil-trac belts, rubber tracks used on multi terrain loaders, compact track loaders, and mini hydraulic excavators
- Cat Work Tools
- 424 Backhoe Loaders, 216 and 226 Skid Steer Loaders, and 320 Excavators sold in India
- Prentice brand forestry machines
- Longwall mining machines
- 785, 789, 793, 794, 795, 797 Off-Highway Truck models sold in regions other than the Commonwealth of Independent States ("CIS")
- 24 Motor Grader models sold in regions other than the CIS
- 854, 992, 993, 994 Wheel Loader models sold in regions other
- Cat Utility Vehicles (UTV)
- Compact Construction Equipment including Compact Track & Multi Terrain Loaders, Mini Hydraulic Excavators, and Skid Steer Loaders sold in USA or Canada

These products are covered by other Caterpillar warranties.

This warranty is subject to the following:

## Warranty Period

For new machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user.

on compact wheel loaders, mini hydraulic excavators, skid steer loaders, multi terrain loaders, and compact track loader machines, the warranty period is 50 hours starting from the date of delivery For hydraulic line's quick connect/disconnect components sold Note:

For Draglines, Electric Rope Shovels, Hard Rock Movers, Hard Rock Feeders, Hard Rock Miners, Hard Rock Conveyors, Hard Rock Roof Supports; the warranty period is not to exceed 24 months from shipment of the last major component from the Caterpillar place of manufacture.

# Caterpillar Responsibilities

If a defect in material or workmanship is found during the warranty period, Caterpillar will, during normal working hours and at a place of business of a Cat dealer or other source approved by Caterpilla

approved repaired parts or assembled components needed to Provide (at Caterpillar's choice) new, remanufactured, or Caterpillar

New, remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed as if such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar

- Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect.
- Provide reasonable and customary labor needed to correct the

# **User Responsibilities**

The user is responsible for:

- Providing proof of delivery date to the first user
- Labor costs, except as stated under "Caterpillar Responsibilities.
- Transportation costs, except as stated under "Caterpillar Responsibilities."
- Premium or overtime labor costs.
- Parts shipping charges in excess of those that are considered usual and customary.
- Local taxes, if applicable
- Costs to investigate complaints, unless the problem is caused by a defect in Caterpillar material or workmanship
- Giving timely notice of a warrantable failure and promptly making the product available for repair
- fuel, oil, lubricants, and coolant) and items replaced due to normal Performance of the required maintenance (including use of proper
- Allowing Caterpillar access to all electronically stored data.

Caterpillar is not responsible for:

- Failures resulting from any use or installation that Caterpillar judges
- Failures resulting from attachments, accessory items, and parts not sold or approved by Caterpillar
- Failures resulting from abuse, neglect, and/or improper storage or
- Failures resulting from user's delay in making the product available after being notified of a potential product problem
- Failures resulting from unauthorized repair or adjustments, and unauthorized fuel setting changes





This warranty covers every major component of the products. Claims under this warranty should be submitted to a place of business of a Cat dealer or other source approved by Caterpillar. For further information concerning either the location to submit claims or Caterpillar as the issuer of this warranty, write Caterpillar Inc., 100 N. E. Adams St., Peoria, IL USA 61629, telephone 1 (309) 675-1000, or go to URL <a href="www.cat.com">www.cat.com</a>, Find Your Dealer

Caterpillar's obligations under this Limited Warranty are subject to, and shall not apply in contravention of, the laws, rules, regulations, directives, ordinances, orders, or statutes of the United States, or of any other applicable jurisdiction, without recourse or liability with respect to Caterpillar.

A) For products operating outside of Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable: NEITHER THE FOREGOING EXPRESS WARRANTY NOR ANY OTHER WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED, IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT CATERPILLAR EMISSION-RELATED COMPONENTS WARRANTY FOR NEW ENGINES, WHERE APPLICABLE. REMEDIES, UNDER THIS WARRANTY WARRANTY FOR NEW ENGINES, MATERIAL AND SERVICES, AS SPECIFIED HEREIN

CATERPILLAR IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS IS EXCLUDED IN ITS ENTIRETY.

B) For products operating in Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

THIS WARRANTY IS IN ADDITION TO WARRANTIES AND CONDITIONS IMPLIED BY STATUTE AND OTHER STATUTORY RIGHTS AND OBLIGATIONS THAT BY ANY APPLICABLE LAW CANNOT BE EXCLUDED, RESTRICTED OR MODIFIED ("MANDATORY RIGHTS"). ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (BY STATUTE OR OTHERWISE), ARE EXCLUDED. WITHOUT LIMITING THE FOREGOING PROVISIONS OF THIS PARAGRAPH, WHERE A PRODUCT IS SUPPLIED FOR BUSINESS PURPOSES, THE CONSUMER GUARANTEES ACT 1993 (NZ) WILL NOT APPLY.

NEITHER THIS WARRANTY NOR ANY OTHER CONDITION OR WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED (SUBJECT ONLY TO THE MANDATORY RIGHTS), IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

IF THE MANDATORY RIGHTS MAKE CATERPILLAR LIABLE IN CONNECTION WITH SERVICES OR GOODS, THEN TO THE EXTENT PERMITTED UNDER THE MANDATORY RIGHTS, THAT LIABILITY SHALL BE LIMITED AT CATERPILLAR'S OPTION TO (a) IN THE CASE OF SERVICES, THE SUPPLY OF THE SERVICES AGAIN OR THE PAYMENT OF THE COST OF HAVING THE SERVICES SUPPLIED AGAIN AND (b) IN THE CASE OF GOODS, THE PAYMENT OF THE COST OF THE GOODS, THE SUPPLY OF EQUIVALENT GOODS, THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OF THE GOODS, THE EQUIVALENT GOODS.

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

CATERPILLAR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES UNLESS IMPOSED UNDER MANDATORY RIGHTS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION (CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS) IS EXCLUDED IN ITS ENTIRETY.

C) For products supplied in Australia:

IF THE PRODUCTS TO WHICH THIS WARRANTY APPLIES ARE:

I. PRODUCTS OF A KIND ORDINARILY ACQUIRED FOR PERSONAL, DOMESTIC OR HOUSEHOLD USE OR CONSUMPTION; OR

II. PRODUCTS THAT COST AUD 40,000 OR LESS,

WHERE THOSE PRODUCTS WERE NOT ACQUIRED FOR THE PURPOSE OF RE-SUPPLY OR FOR THE PURPOSE OF RE-SUPPLY OR FOR THE PURPOSE OF RE-SUPPLY OF PRODUCTION OR MANUFACTURE OR IN THE COURSE OF REPAIRING OTHER GOODS OR FIXTURES, THEN THIS SECTION C APPLIES.

THE FOLLOWING MANDATORY TEXT IS INCLUDED PURSUANT TO THE AUSTRALIAN CONSUMER LAW AND INCLUDES REFERENCES TO RIGHTS THE USER MAY HAVE AGAINST THE DIRECT SUPPLIER OF THE PRODUCTS: OUR GOODS COME WITH GUARANTEES THAT CANNOT BE EXCLUDED UNDER THE AUSTRALIAN CONSUMER LAW. YOU ARE ENTITLED TO A REPLACEMENT OR REFUND FOR A MAJOR FAILURE AND COMPENSATION FOR RAY OTHER REASONABLY FORESEEABLE LOSS OR DAMAGE. YOU ARE ALSO ENTITLED TO HAVE THE GOODS REPLACED IF THE GOODS FAILURE DOES NOT THAT THE GOODS FAILURE. THE INCLUSION OF THIS TEXT DOES NOT CONSTITUTE ANY REPRESENTATION OR ACCEPTABLE COTHING THAT THE NOT THE USER OR ANY OTHER PERSON IN ADDITION TO THAT WHICH CATERPILLAR MAY HAVE UNDER THE AUSTRALIAN CONSUMER LAW.

TO THE EXTENT THE PRODUCTS FALL WITHIN THIS SECTION C BUT ARE NOT OF A KIND ORDINARILY ACQUIRED FOR PERSONAL, DOMESTIC OR HOUSEHOLD USE OR CONSUMPTION, CATERPILLAR LIMITS ITS LIABILITY TO THE EXTENT IT IS PERMITTED TO DO SO UNDER THE AUSTRALIAN CONSUMER LAM TO, AT ITS OPTION, THE REPAIR OR REPLACEMENT OF THE PRODUCTS, THE SUPPLY OF EQUIVALENT PRODUCTS, OR THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OR THE ACQUISITION OF EQUIVALENT PRODUCTS.

THE WARRANTY SET OUT IN THIS DOCUMENT IS GIVEN BY CATERPILLAR INC. OR ANY OF ITS SUBSIDIARIES, 100 N. E. ADAMS ST, PEORIA, IL USA 61629, TELEPHONE 1 309 675 1000,THE USER IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MAKING A CLAIM UNDER THE WARRANTY SET OUT IN THIS DOCUMENT, EXCEPT AS EXPRESSLY STATED OTHERWISE IN THIS DOCUMENT, AND THE USER IS REFERRED TO THE BALANCE OF THE DOCUMENT TERMS CONCERNING CLAIM PROCEDURES, CATERPILLAR RESPONSIBILITIES AND USER RESPONSIBILITIES.

TO THE EXTENT PERMISSIBLE BY LAW, THE TERMS SET OUT IN THE REMAINDER OF THIS WARRANTY DOCUMENT (INCLUDING SECTION B) CONTINUE TO APPLY TO PRODUCTS TO WHICH THIS SECTION C APPLIES.

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