

FSA20-EQU18.0, ITEM# 41
EXCAVATOR: Wheeled Hydraulic Excavator - 42,000 LB
M318 SHERIFF'S CONTRACT WORKSHEET

496-8280	M318 07 WHEEL EXCAVATOR
540-6718	COMMON ARRANGEMENT
553-8758	NO CAT GRADE
540-6721	BOOM, VA
547-5204	AUTOLUBE, VA
513-7791	STICK, 9'6"
525-4934	LINKAGE, BKT, W/EYE
547-5200	CYLINDERS, VA, LCV
565-4313	SPEED, MAX MPH
541-4420	UC, BLADE FRONT / OUT. REAR
548-1811	NO FENDERS
474-7221	TIRES, MITAS 10.00-20 DUAL
561-4106	QC CONTROL, PG, VA
566-1966	AUX HYD, HP1 & MP, VA
548-0989	NO SMARTBOOM, LCV
4919770	CAB, DELUXE, 70/30
528-9505	JOYSTICK, 1-SLIDER
555-7286	NETWORK MANAGER, STD
583-3846	WIRING, PRODUCT LINK
562-9141	CAMERA, REAR & RH VIEW
525-2938	MIRRORS, VA
553-9104	COUNTERWEIGHT
542-7210	HYDRAULIC OIL, MINERAL
521-6833	DECALS, NORTH AMERICA (ANSI)
0G-9240	COMPLETE STORAGE PROTECTION
581-3651	ALARM, TRAVEL
567-0427	BEACON, CAB
387-5720	BUCKET-GD, 47" 1.19 CYD
229-6966	QTY 5 TIP, PENETRATION PLUS

**M318 HYDRAULIC WHEEL EXCAVATOR
GRENOBLE, FRANCE**Ship Weight
lbsLIST PRICE
AT DEALER

Standard Equipment:

POWERTRAIN

One-touch low idle with automatic engine speed control
Automatic engine idle shutdown
Work up to 3000 m (9,842 ft) above sea level without engine power de-rating
52C (125F) high-ambient cooling capacity
Cold starting capability for -18C (0F)
Double element air filter with integrated precleaner
Electric fuel priming pump
Biodiesel capability up to B20

for all controls
Ground-level accessible secondary engine shutoff switch in cab
Bluetooth receiver
Anti-skid plate and countersunk bolts on service platform

UNDERCARRIAGE

All wheel drive
Automatic brake/axle lock
Creeper speed
Electronic swing and travel lock
Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force
Oscillating front axle, lockable, with remote greasing point
Two-piece drive shaft
Two speed hydrostatic transmission

HYDRAULICS

Overload warning
Electronic main control valve
Auto hydraulic oil warm up
Element type main hydraulic filter
Heavy lift mode
Separate dedicated swing pump
Automatic swing brake
Adjustable hydraulic aggressiveness
Pattern changer

ELECTRICAL

LED lights on boom and cab
Programmable time-delay LED working lights
Roading and indicator lights, front and rear
Maintenance free batteries
Centralized electrical disconnect switch

TECHNOLOGY PRODUCTS

Cat Product Link TM
Remote Flash capability
Remote Troubleshoot capability

SAFETY AND SECURITY

Wide angle mirrors
Neutral lever (lock out)

M318

WHEELED EXCAVATOR



Engine Power (ISO 14396)
Operating Weight

129 kW (174 hp)
19 950 kg (43,980 lbs)

Cat C4.4 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 4 Final emission standards.



THE NEW CAT® M318

BOOSTING EFFICIENCY

The Cat M318 increases your productivity with more comfort in the cab, full tiltrotator integration, and easy-to-use controls. Lower fuel and maintenance costs puts money back in your pocket.



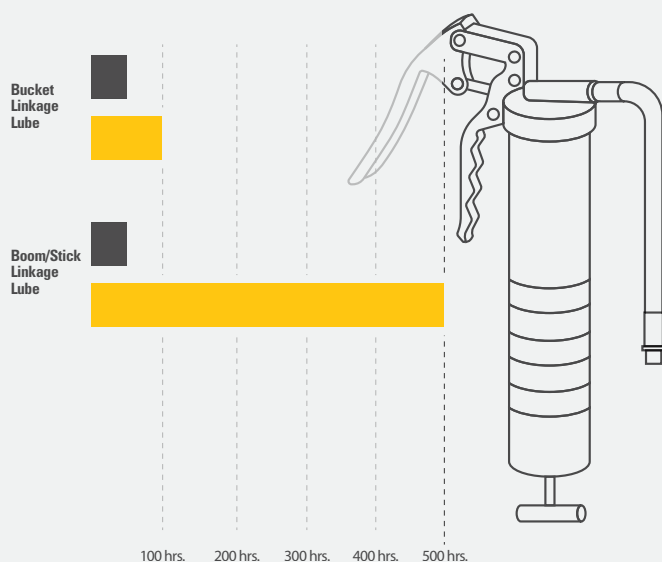
NEXT GENERATION WHEELED EXCAVATORS

The new wheeled excavators match your performance needs to bring you:

- + LOWER OPERATING AND MAINTENANCE COSTS
- + INCREASED OPERATOR EFFICIENCY AND VISIBILITY
- + MORE IN-CAB COMFORT



DO MORE WORK WITH EXTENDED INTERVALS



* M318F M318

MAXIMIZE PERFORMANCE

Work faster with up to 14% more swing torque with lower fuel and DEF consumption. Tiltrotator integration gives you more versatility to complete more tasks faster with one machine.

ENHANCED CAB COMFORT

Operate comfortably with the ergonomic control layout and cab options. Get better visibility with rear and side view cameras and an optional 360-degree machine view system.

UP TO 10% MAINTENANCE SAVINGS¹

Fewer maintenance costs, combined with 100% daily ground-level maintenance and extended service intervals, increase uptime and keep overall costs down.

¹ Compared to the M318F

CAT LINK TECHNOLOGY

TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Link telematics technology helps take the complexity out of managing your jobsites by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



PRODUCT LINK™

Product Link collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.



VISIONLINK®

Access information anytime, anywhere with VisionLink. Use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting (or both).



Remote Services is a suite of technologies that improve your jobsite efficiency.

Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote Troubleshoot helps ensure the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

Remote Flash updates on-board software without a technician being present, potentially reducing update time by as much as 50 percent. You can initiate the update when convenient, increasing your overall operating efficiency.

The **Cat App** helps you manage your assets – at any time – right from your smartphone. You can see your fleet location, hours, and other information. You will get critical alerts for required maintenance, and you can even request service from your local Cat dealer.

Get in and out of the cab more easily with the tilt-up left console. Deluxe and Premium cab options offer supreme comfort, from a heated/cooled seat to automatic temperature control.

CAB TAKES THE HARD OUT OF WORK



ERGONOMIC CONTROL LAYOUT

Controls are positioned to reduce fatigue and straining movements to help keep you operating at your full potential.

REDUCED CAB VIBRATIONS

Feel more comfortable in the cab while you work with reduced cab vibrations from advanced viscous mounts.

BLUETOOTH® CONNECTION

Bluetooth-integrated radio allows for seamless mobile phone connection to listen to music, podcasts, and hands-free calling.

LONGER SERVICE INTERVALS

The in-cab monitor tracks filter life and machine intervals, so you always know when it's time for regular machine service.

GROUND LEVEL ACCESS

Complete your daily machine checks entirely from the ground, minimizing the need to access the upper platform.

NEW FILTERS

Two levels of filtration protect your engine from dirty diesel. The new hydraulic oil filter improves filtration performance and lasts up to 50 percent longer than previous filter designs.

SAVE UP TO

10% IN MAINTENANCE COSTS





KEYLESS PUSH START

Start the engine with the push-to-start button or using the unique Operator ID function.



MACHINE SETTINGS

Access the operator manual at your fingertips as well as the power mode selector to keep productivity while using less fuel.



JOYSTICK PREFERENCES

Program your preferred power mode and joystick preferences with your Operator ID. Once you enter in your Operator ID, the excavator remembers your settings each time.



TOUCHSCREEN MONITOR

Use the standard 254 mm (10-in) touchscreen monitor to adjust your heating/cooling setting for more comfort or to view your machine information.



LOOK OUT FOR YOUR PEOPLE AND YOUR EQUIPMENT

SAFETY FEATURES



STAY SAFE EVERY DAY

FACT:

#1 cause of construction accidents: **FALLS***

49% OF FALLS RESULT IN SERIOUS INJURY

30% OF FALLS RESULT IN DEATH

100% GROUND-LEVEL MAINTENANCE HELPS PREVENT FALLS

FALLS



*<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4962179/>

Daily maintenance checks can be performed with 100% of the points accessible from ground level, making maintenance faster, easier, and safer. Standard LED lights gives you a better view of your jobsite.

- + ENJOY BETTER VISIBILITY INTO TRENCHES, IN EACH SWING DIRECTION, AND BEHIND YOU. THE SMALLER CAB PILLARS, LARGER WINDOWS, AND A FLAT ENGINE HOOD DESIGN LOWER OBSTRUCTION TO YOUR VIEW. REARVIEW AND SIDEVIEW CAMERAS ARE STANDARD, AND THE 360 DEGREE VIEW SYSTEM OPTION OFFERS A HIGHER VIEWING VANTAGE POINT OF THE MACHINE. .
- + THE STANDARD SOUND SUPPRESSION ROPS CAB MEETS ISO 12117-2:2008 REQUIREMENTS AND HELPS TO BLOCK THE NOISE TO STAY FOCUSED ON THE JOB.
- + THE SERVICE PLATFORM DESIGN PROVIDES EASY, SAFE, AND QUICK ACCESS TO UPPER PLATFORM. THE STEPS USE ANTI-SKID PUNCH PLATES TO PREVENT SLIPPING.
- + THE AUTO AXLE LOCK PRESSES THE PEDAL FOR YOU TO REDUCE YOUR OVERALL NUMBER OF ACTIONS. THE MACHINE AUTOMATICALLY DETECTS WHEN THE SERVICE BRAKE AND AXLE NEED TO BE LOCKED OR UNLOCKED. IT RELEASES AUTOMATICALLY WHEN YOU PRESS THE TRAVEL PEDAL.

INCREASE PRODUCTIVITY AND VERSATILITY WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat Attachments. Each Cat Attachment is designed to fit the weight and horsepower of Cat wheeled excavators for improved performance, safety, and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



QUICK COUPLER



SHEARS



**VIBRATORY PLATE
COMPACTORS**



MULCHERS*



TILTROTATOR*



PIN GRABBER COUPLER*



***Not all features are available in all regions. Consult your Cat dealer for specific configurations available in your region.**

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat C4.4	
Engine Power – ISO 14396	129 kW	174 hp
Engine Power – ISO 14396 (metric)	176 hp (PS)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	268.5 in ³
<ul style="list-style-type: none"> • Meets U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 4 Final emission standards. • Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, CEM exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed. • Recommended for use up to 3000 m (9,843 ft) altitude with engine power derating above 3000 m (9,843 ft). • Rated speed 2,200 rpm. 		

HYDRAULIC SYSTEM		
Main System – Maximum Flow	254 L/min	67 gal/min
Maximum Pressure – Equipment	37 000 kPa	5,366 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	35 500 kPa	5,149 psi

SWING MECHANISM		
Swing Speed	9.4 rpm	
Maximum Swing Torque	44kN·m	32,560 lbf-ft

WEIGHTS		
Operating Weight Minimum	17 500 kg	38,580 lb
Operating Weight Maximum	19 950 kg	43,980 lb
<p>** Operating weight includes full fuel tank, operator, bucket 610 kg (1,340 lb), and dual pneumatic tires. Weight varies depending on configuration. Typical configurations include 2500 mm (8'2") medium stick and 3700 kg (8,157 lb) counterweight.</p>		

SERVICE REFILL CAPACITIES		
Fuel Tank	350 L	92.5 gal
Cooling System	32 L	8.5 gal
Engine Oil	11 L	2.9 gal
Diesel Exhaust Fluid (DEF) Tank	20 L	5.3 gal
Final Drive	2.5 L	0.7 gal
Hydraulic System (including tank)	260 L	68.7 gal
Hydraulic Tank	120 L	31.7 gal

DIMENSIONS		
Boom	Reach 5250 mm (17' 1")	
Stick	Reach 2500 mm (8' 2")	
Bucket	GD 0.91 m ³ (1.19 yd ³)	
Shipping Height (top of cab)	3360 mm	11'
Support Point	3520 mm	11' 7"
Shipping Length	8470 mm	27' 9"
Tail Swing Radius	2350 mm	7' 9"
Counterweight Clearance	1301 mm	4' 3"
Ground Clearance	325 mm	1' 1"
Undercarriage Length	4440 mm	14' 7"
Wheel Base	2700 mm	8' 10"

WORKING RANGES AND FORCES		
Boom Type	VA Boom	
Stick	Reach 2500 mm (8' 2")	
Bucket	GD 0.91 m ³ (1.19 yd ³)	
Loading Height	7300 mm	23' 11"
Cutting Height	10 260 mm	33' 8"
Digging Height	5890 mm	19' 4"
Reach at Ground Level	9210 mm	30' 3"
Vertical Wall Digging Depth	4600 mm	15' 1"
Bucket Forces (ISO)	119 kN	26,752 lbf
Stick Forces (ISO)	75 kN	16,861 lbf
<ul style="list-style-type: none"> • Range values are with dual pneumatic tires (10.00-20). • Range values are calculated with a GD bucket (CW) and CW-30 quick coupler with a tip radius of 1484 mm (4'10"). • Force values are calculated with heavy lift on, a GD bucket (pin-on), and a tip radius of 1378 mm (4'6"). 		

AIR CONDITIONING SYSTEM	
<ul style="list-style-type: none"> • The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes. 	

STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat dealer for details.

CAB	STANDARD	OPTIONAL
ROPS, sound suppression	•	
Keyless push-to-start engine control	•	
Deluxe Cab		•
Premium Cab		•
High-Resolution 254 mm (10 in) LCD touchscreen monitor	•	
Product Link	•	
Remote Flash/Troubleshoot Capability	•	
ENGINE	STANDARD	OPTIONAL
Power mode selector	•	
One-touch low idle with auto engine speed control	•	
Auto engine idle shutdown	•	
52°C (125°F) high-ambient cooling capacity	•	
-18°C (0°F) cold start capability	•	
Double element air filter with integrated precleaner	•	
Biodiesel capability up to B20	•	
On-demand electric cooling fans with auto-reverse function	•	
Electric priming pump	•	
HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Auto hydraulic warmup	•	
Automatic swing brake	•	
Boom and stick drift reduction valve	•	
Electronic main control valve	•	
Slider joysticks (2 types)		•
Boom/stick lowering check valves		•
SmartBoom™		•
Cat TRS support		•
Joystick steering		•
Combined flow/high-pressure auxiliary circuit		•
Quick coupler circuit		•
Ride control		•
Separate dedicated swing pump	•	
SAFETY AND SECURITY	STANDARD	OPTIONAL
Rear and right-side-view cameras	•	
360° visibility		•
Wide angle mirrors	•	
Ground-level engine shutoff switch	•	
Handrail and hand holds on service platform	•	
Signaling/warning horn	•	

BOOM AND STICKS	STANDARD	OPTIONAL
5250 mm (17'1") variable adjustable boom		•
2200 mm (7'3") stick¹		•
2500 mm (8'2") stick		•
2900 mm (9'6") stick		•
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
10.00-20 16 PR, dual tires		•
315/70R22.5, no gap dual tires¹		•
445/70R 19.5, single tires		•
All-wheel drive	•	
Automatic brake/axle lock	•	
3700 kg (8,157 lb) counterweight		•
4200 kg (9,259 lb) counterweight		•
Fenders		•
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
LED lights on boom and cab	•	
Roading and indicator lights, front and rear	•	
Maintenance-free batteries	•	
Centralized electrical disconnect switch	•	
LED chassis light, left-hand/right-hand boom lights, cab lights		•
Electrical refueling pump		•
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Sampling ports for Scheduled Oil Sampling (S•O•S SM)	•	
Ground-level and platform-level engine oil dipsticks	•	
Automatic lubrication system for implement and swing system		•
Ground-level engine shutoff switch	•	
Anti-skid plate	•	
Signaling/warning horn	•	
Rotating beacon		•

¹All regions except North America

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.
For additional information, refer to the Technical Specifications brochures for the M318 available at www.cat.com or your Cat dealer.

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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www.cat.com www.caterpillar.com

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