

# 880D LOGGER

## THE 880D

The 880D logger from Tigercat. A heavy duty, purpose-built forestry carrier that can be configured for multiple uses including loading, shovel logging and processing.



## BENEFITS AND ADVANTAGES:

### Powerful, efficient Tigercat FPT engine

- Tier 2 or Tier 4 options available
- Simple reliable SCR emission control technology for Tier 4

### Efficient, high-capacity cooling system

- Automatic variable fan speed for improved fuel efficiency
- Automatic reversing cycle to clean the heat exchangers

### Smooth, quiet, twin swing drive system

- High swing torque and reduced gear tooth loads
- Large diameter, high capacity bearing
- Smooth and quiet swing operation

### Dedicated, energy recovery swing system

- Closed loop drive feeds power back to the engine when swing decelerates, reducing fuel consumption and recovering energy for other machine functions
- Dedicated swing system enhances machine performance

### Compartmentalized component arrangement

- Shields separate the engine from hydraulic pumps and valves

### Excellent service access

- Power operated side engine door and overhead roof enclosure
- Full access to engine, major components and service points

### Durable construction for extreme duty

- Heavy wall side bumpers and solid cast counterweight
- Upper assembly will not dent or deform from impacts

### Tigercat f7-163 forest duty undercarriage

- Designed and built to withstand rigorous, full time, forest duty applications
- Long frames and wide stance carbody for excellent stability

### Quiet, climate controlled operator's station

- Ergonomic cab with rear entry and generous storage space
- Full length front window and additional floor windows for clear sightline to the tracks
- High output climate control system with multiple vents

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Swing-out doors for filters and cooling system components.



The engine and hydraulic pumps are compartmentalized and accessible.



Heavy duty side bumpers and durable solid cast counterweight.



THERE IS PLENTY OF ROOM TO WORK IN THE ENGINE COMPARTMENT. CAB ENTRY IS EASY AND CONVENIENT. With a thoughtful layout, the engine compartment is arranged for optimal cooling airflow and ready access to components. Routing of wiring and hoses is neat and clean.



Power operated side door and roof enclosure; neat clean component layout.



**EXCELLENT VISIBILITY AND A QUIET, COMFORTABLE OPERATOR ENVIRONMENT.**

The 880D can be configured as a processor, loader or shovel logger.

**880D LOGGER**



**TIGERCAT FPT EMISSION TECHNOLOGY**

Tigercat FPT Tier 2 and Tier 4f engines offer quick load response, low operating costs and high power density, combined with excellent fuel economy.

Tigercat FPT emission technology is simple and reliable, meeting Tier 4f emission standards without the complexities of a variable geometry turbocharger, EGR system, intake throttle body or diesel particulate filter. The key is the patented selective catalyst reduction (SCR) system.

Tigercat FPT engines offer improved reliability and lower long-term maintenance costs.

TIGERCATPOWER.  
TIGERCATSUPPORT.



## 880D

### DIMENSIONS

WIDTH with steps	3 630 mm (143 in)
SHIPPING HEIGHT	3 430 mm (135 in)
GROUND CLEARANCE	710 mm (28 in)
WEIGHT less attachment	42 640 kg (94,000 lb)
TAIL SWING over rear	3 500 mm (138 in)
TAIL SWING over side	1 700 mm (67 in)

### POWER

ENGINE	Tigercat FPT N67 Tier 4f 230 kW (308 hp) @ 2,000 rpm
► Optional	Tigercat FPT N67 Tier 2 230 kW (308 hp) @ 2,000 rpm
AIR FILTRATION	Precleaner, 2-stage engine air cleaner
COOLING	Side-by-side aluminum radiator, oil cooler, charge air cooler and A/C condenser
► Optional	Removable intake debris screen
FAN	Hydraulic driven automatic variable speed, reversible
FUEL CAPACITY usable Tier 4f	1,000 L (264 US gal)
FUEL CAPACITY usable Tier 2	1,300 L (343 US gal)
DEF CAPACITY Tier 4f	80 L (21 US gal)

### HYDRAULIC SYSTEM

PUMP, MAIN	Piston, load sensing
PUMP, SWING	Piston, closed loop, energy recovery
PUMP, ATTACHMENT	Piston, load sensing
PUMP, COOLING FAN	Piston
RESERVOIR	225 L (60 US gal)
FILTRATION	(5) Spin-on, 7 micron full flow (1) water absorbing
CYLINDERS, HOIST	(2) 150 mm (5.9 in) bore
CYLINDER, STICK	170 mm (6.7 in) bore
CYLINDER, LIVE HEEL	130 mm (5.2 in) bore
CYLINDER, TILT	110 mm (4.3 in) bore
HORSE POWER CONTROL	Electronic speed sensing

### UNDERCARRIAGE

TRACK FRAMES	F7-163 heavy duty forestry Integral track guides, ramp angles
TRACK CHAIN	FH400 215 mm (8.5 in) pitch
FINAL DRIVE	(2) Axial piston motors Infinitely variable speed
TRACTIVE EFFORT	334 kN (75,000 lbf)
GEARBOX	Triple reduction planetary with brake
FRONT IDLER	Hydraulic track adjuster Spring shock absorber
SLIDES, UPPER	Replaceable, bolt-on
ROLLERS, LOWER	(9) FH400 single/double flange, excavator
TRACK SHOE	710 mm (28 in) double grouser, tall lug

### TOP SPEED

LOW RANGE	2,3 km/h (1.4 mph)
HIGH RANGE	4,5 km/h (2.8 mph)

### BRAKES

TRACK	Friction disc; Automatic spring applied, hydraulic release
SWING	Friction disc; Manual spring applied, hydraulic release

### ROTATING UPPER

SWING DRIVE	6,4 rpm variable speed; 360° continuous rotation Double reduction, twin swing drive planetary gearboxes; Twin piston swing motors
SWING BEARING	1 565 mm (62 in) ball circle diameter
ENCLOSURE	Hydraulically operated roof and side engine enclosure with manual backup; Large air intake for cooling system; Vandal protection; Smooth exterior

### BOOM SYSTEM POWER CLAM BUTT-N-TOP

MAXIMUM RADIUS	11 355 mm (447 in)
BARE PIN LIFT full reach*	7 620 kg (16,800 lb)

### BOOM SYSTEM LIVE HEEL

MAXIMUM RADIUS	12 650 mm (498 in)
BARE PIN LIFT full reach*	5 580 kg (12,300 lb)

### BOOM SYSTEM HARVESTER

MAXIMUM RADIUS	11 660 mm (459 in)
BARE PIN LIFT full reach*	6 990 kg (15,400 lb)

### OPERATOR'S STATION

CAB	Insulated and pressurized; A/C, heater and defroster Full length polycarbonate windshield Polycarbonate side, rear, door and floor windows AM/FM digital stereo with CD player (2) Power points
OPERATOR CONTROLS	Hydraulic proportional boom/travel/swing Electronic for horsepower/fan control Electric switch for swing brake/speed Electronic control system with colour LCD display screen interface for machine monitoring and function adjustment
SEAT	Full suspension air ride, fully adjustable Armrest mounted Tigercat joysticks

### ELECTRICAL

BATTERY	(2) 12 v
ALTERNATOR	110 amp, 24 v
SYSTEM VOLTAGE	24 v
LIGHTING	(12) High output LED; (5) LED service, engine enclosure

### OTHER STANDARD EQUIPMENT

Fuel suction strainer; Alarm for track movement  
Load ticket chute

### OPTIONAL EQUIPMENT

Cold weather kit  
High view cab mounted camera system  
Heavy duty stick cylinder guard  
Jaw/tilt control swap; Butt-n-top tilt float  
Long reach butt-n-top stick boom; Slasher saw hydraulics

\*Hydraulic lift, 100%

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