

# PRODUCT SPECIFICATIONS FOR 826K



## ENGINE

<b>Gross Power</b>	324 kW
<b>Net Power</b>	302 kW
<b>Engine Model</b>	C15 Cat®
<b>Bore</b>	137.2 mm
<b>Stroke</b>	171.4 mm
<b>Displacement</b>	15.2 l
<b>High Idle Speed</b>	2300 r/min
<b>Net Power - Converter Drive - Torque Rise</b>	8.5 %
<b>Rated Power (Net SAE J1349)</b>	302 kW
<b>Maximum Altitude - Without Derating (Tier 4 Final/Stage IV)</b>	2834 m
<b>Net Power - Direct Drive - Torque Rise</b>	33 %
<b>Emissions</b>	Tier 4 Final/Stage IV or Tier 3/Stage IIIA equivalent
<b>Low Idle Speed</b>	800 r/min
<b>Net Power - Direct Drive - Gross Power</b>	307 kW
<b>Net Power - Converter Drive - Gross Power</b>	324 kW
<b>Maximum Net Torque - 1,300 rpm</b>	2005 N·m
<b>Rated Power (Net ISO 9249)</b>	302 kW

<b>Maximum Altitude - Without Derating (Tier 3/Stage IIIA)</b>	2773 m
--	--------

## TRANSMISSION

<b>Travel Speed - Reverse - Maximum 1st</b>	6.9 km/h
---	----------

<b>Travel Speeds - Reverse - Maximum Eco Mode</b>	7.4 km/h
---	----------

<b>Travel Speed - Forward - Maximum 2nd</b>	10.6 km/h
---	-----------

<b>Travel Speed - Reverse - Maximum 2nd</b>	12.2 km/h
---	-----------

<b>Travel Speeds - Forward - Maximum Eco Mode</b>	6.9 km/h
---	----------

<b>Travel Speed - Forward - Maximum 1st</b>	6 km/h
---	--------

<b>Transmission Type</b>	Planetengetriebe – Lastschaltgetriebe – ECPC (Electronic Clutch Pressure Control, Elektronische Kupplungsdrucksteuerung)
--------------------------	--

## HYDRAULIC SYSTEM

<b>Main Relief Pressure</b>	24100 kPa
-----------------------------	-----------

<b>Pump Flow at 1,950 rpm</b>	117 l/min
-------------------------------	-----------

<b>Bore</b>	120 mm
-------------	--------

<b>Stroke</b>	1070 mm
---------------	---------

<b>Lift System</b>	Double Acting Cylinder
--------------------	------------------------

<b>Maximum Supply Pressure</b>	24100 kPa
--------------------------------	-----------

## AXLES

Front Planetary - Fixed

Oscillation Angle  $\pm 5^\circ$

Rear Planetary - Oscillating

## BRAKING SYSTEM

Parking Brake Drum and Shoe, Spring Applied, Hydraulic Released

## SERVICE REFILL CAPACITIES

Fuel Tank 782 l

Cooling System 116 l

Transmission 66 l

Differential - Final Drives - Front 100 l

Differential - Final Drives - Rear 110 l

Diesel Exhaust Fluid Tank (Tier 4 Final/Stage IV) 32 l

Hydraulic Tank Only 134 l

Engine Crankcase 34 l

## WEIGHTS

Operating Weight 40917 kg

## CAB - STANDARD

Machine Sound Power Level (ISO 6395) 113 dB(A)

Operator Sound Pressure Level - ISO 6396 73 dB(A)

## CAB - SUPPRESSION

Machine Sound Power Level (ISO 6395) 110 dB(A)

Operator Sound Pressure Level - ISO 6396 72 dB(A)

## OPERATING SPECIFICATIONS

Maximum Operating Weight (Tier 4 Final/Stage IV) - Multiple Blade and Wheel Offerings 40917 kg

Maximum Operating Weight (Tier 3 Final/Stage IIIA equivalent) Multiple Blade and Wheel Offerings 40454 kg

## DIMENSIONS (APPROXIMATE)

Height - Top of Cab with A/C 4568 mm

Height - Top of Exhaust Pipe 4439 mm

Height - Top of Hood 3312 mm

Ground Clearance - Bumper 960 mm

Hitch to Centerline of Front Axle 1850 mm

Wheel Base 3700 mm

Width - Over Wheels 3800 mm

Centerline of Rear Axle to Edge of Counterweight - Including Rear Radiator Guard 3096 mm

Height - Top of Cab with Strobe 4765 mm

Height - ROPS/Canopy 4274 mm

Centerline of Rear Axle to Edge of Counterweight - No Rear Radiator Guard 2860 mm

Turning Radius - Inside of Wheels 2797 mm

<b>Length - With Blade on Ground - Straight Blade - Including Rear Radiator Guard</b>	8715 mm
---	---------

<b>Ground Clearance</b>	642 mm
-------------------------	--------

## HYDRAULIC SYSTEM - STEERING

<b>Stroke</b>	576 mm
---------------	--------

<b>Vehicle Articulation Angle</b>	86 °
-----------------------------------	------

<b>Bore</b>	114.3 mm
-------------	----------

<b>Maximum System Flow</b>	170 L/min @ 1,950 rpm (44.9 gal/min @ 1,950 rpm)
----------------------------	--

<b>Steering Pressure Limited</b>	24000 kPa
----------------------------------	-----------

<b>Steering System - Circuit</b>	Double Acting - End Mounted
----------------------------------	-----------------------------

<b>Steering System - Pump</b>	Piston - Variable Displacement
-------------------------------	--------------------------------

## WHEELS AND TIPS

<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle and Plus Tips - Drum Width</b>	1200 mm
--	---------

<b>Attachment - Wheels: 1200 mm (47.25 in) Plus Tips - Drum Diameter</b>	1610 mm
--	---------

<b>Attachment - Wheels: 1200 mm (47.25 in) Plus Tips - Weight</b>	9980 kg
---	---------

<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle Tips - Tips per Wheel</b>	30
---	----

<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle Tips - Drum Width</b>	1200 mm
---	---------

<b>Attachment - Wheels: 1200 mm (47.25 in) Plus Tips - Outside Diameter</b>	1971 mm
---	---------

<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle and Plus Tips - Weight</b>	9582 kg
--	---------

<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle Tips - Width over Drums</b>	3800 mm
---	---------

<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle Tips - Weight</b>	9317 kg
<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle and Plus Tips - Drum Diameter</b>	1610 mm
<b>Attachment - Wheels: 1200 mm (47.25 in) Plus Tips - Width over Drums</b>	3800 mm
<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle and Plus Tips - Outside Diameter</b>	1971 mm
<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle Tips - Outside Diameter</b>	1971 mm
<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle and Plus Tips - Width over Drums</b>	3800 mm
<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle Tips - Drum Diameter</b>	1610 mm
<b>Attachment - Wheels: 1200 mm (47.25 in) Plus Tips - Drum Width</b>	1200 mm
<b>Attachment - Wheels: 1200 mm (47.25 in) Paddle and Plus Tips - Tips per Wheel</b>	30
<b>Attachment - Wheels: 1200 mm (47.25 in) Plus Tips - Tips per Wheel</b>	30

## 826K STANDARD EQUIPMENT

### NOTE

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

### POWER TRAIN

Single Clutch Speed Shifting (SCSS)

Electronic Clutch Pressure Control (ECPC)

Air to air aftercooler

Brakes, full hydraulic, enclosed, wet multiple disc service brakes

Cat clean emission module (insulated) (Tier 4 Final/Stage IV)

Muffler (under hood) (U.S. EPA Tier 3/EU Stage IIIA equivalent)

Electro-hydraulic parking brake

Engine, Cat C15: – Tier 4 Final/Stage IV – Tier 3/Stage IIIA equivalent

Fuel priming pump (electric)

Fuel to air cooler

Ground level engine shutoff

Heat shield, turbo and exhaust manifold  
Hydraulically driven demand fan  
Integrated braking system  
Radiator, Aluminum Modular (AMR)  
Separated cooling system  
Starting aid (ether) automatic  
Throttle lock  
Torque converter with Lock Up Clutch (LUC)  
Eco Mode  
Transmission, planetary, with 2F/2R speed range control  
Under hood ventilation system

## **ELECTRICAL**

Alarm, back-up  
Alternator, 150 amp  
Batteries, maintenance-free (4 - 1,000 CCA)  
Electrical system, 24V  
Light, warning unswitched (LED strobe)  
Lighting system, halogen (front and rear)  
Lighting, access stairway  
Lighting, underhood  
Starter, electric (heavy duty)  
Ground level lockable master disconnect switch  
Starting receptacle for emergency start

## **OPERATOR ENVIRONMENT**

Air conditioner with roof mounted condenser  
Cab, sound-suppressed pressurized  
Internal four-post rollover protective structure (ROPS/FOPS)  
Radio ready for entertainment: – Antenna – Speakers – Converter (12V, 10-15 amp)  
12V power port for mobile phone or laptop connection  
Radio, CB ready  
Coat and hard hat hooks  
Hydraulic controls (seat mounted)  
Finger tip shifting controls  
Flip-up armrest  
Heater and defroster  
Implement hydraulic lockout  
Laminated glass  
Light, (dome) cab  
Lunch box and beverage holders  
Instrumentation, gauges: – DEF fluid level (Tier 4 Final/Stage IV) – Engine coolant temperature – Fuel level – Hydraulic oil temperature – Speedometer/tachometer – Torque converter temperature  
Instrumentation, warning indicators: – Action alert system, three categories – Brake oil pressure – Electrical system, low voltage – Engine failure malfunction alert and action lamp – Parking brake status  
Mirror, internal (panoramic)  
Mirrors, rearview (externally mounted)

Seat, Cat Comfort (cloth) air suspension  
Seat belt with minder, retractable, 76 mm (3 in) wide  
STIC control system with lockout  
Sun visor, front  
Tinted glass  
Transmission gear (indicator)  
Vital Information Management System (VIMS): – Graphical information display – External data port –  
Customizable operator profiles  
AccuGrade mapping (ready)  
Wet-arm wipers/washers (front and rear)  
Intermittent wipers (front and rear)

## **GUARDS**

Guards, axle (front and rear)  
Guard, cab window  
Guard, driveshaft  
Guards, crankcase and power train, hydraulically powered  
Striker bars

## **FLUIDS**

Antifreeze, premixed 50% concentration extended life (-34° C/-29° F)

## **OTHER STANDARD EQUIPMENT**

Demand fan/swing out (hydraulic reversible)  
Doors, service access (locking)  
Ecology drains for engine, radiator, transmission, hydraulic tank  
Emergency platform egress  
Engine, crankcase, 500 hour interval with CJ-4 oil  
Engine idle management features: – Auto idle kickdown – Delayed engine shutdown – Engine idle shutdown  
Fire suppression ready  
Fuel tank, 782 L (207 gal)  
Hitch, drawbar with pin  
Hoses, Cat XT  
Hydraulic, engine, and transmission oil coolers  
Total hydraulic filtration system  
Oil sampling valves  
Oil change system, high speed  
Steering, load sensing  
Stairway, left and right rear access  
Vandalism protection caplocks  
Venturi stack  
Fold down exhaust stack for shipping

## **STANDARD ATTACHMENTS**

VIMS/Product Link: – GSM, satellite



Engine: – Sound suppression

Precleaner – cab: – Standard or powered

Window: – Standard bonded or rubber-mounted glass

Horn: – Standard or trumpet

Stairs: – Fixed or swingout

Striker bars or striker bars with cleaner fingers

Blades: – Straight, Semi-U, U

Wheels: – Various tip and wheel arrangements (Paddle and Plus [combination], Paddle, Plus, Chopper [U.S.

EPA Tier 3/EU Stage IIIA equivalent], Omission)

Precleaner – engine: – Turbine or dual stage

## **826K OPTIONAL EQUIPMENT**

### **NOTE**

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

### **ELECTRICAL**

Camera, rear vision

### **OPERATOR ENVIRONMENT**

Radio (includes AM/FM, MP3, Bluetooth, hands free microphone)

### **GUARDS**

Guard – rear

### **STARTING AIDS**

Heater, engine coolant, 120V

Heater, engine coolant, 240V

### **MISCELLANEOUS**

Film (ANSI) (HRC)

EU certification (HRC)

Plate – year of manufacture (LRC)