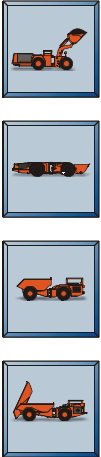




EJC 522

Technical Specification

*Payload: 20 tonnes (22 tons)
Dump box volume (SAE): 10.2 m³ (13.4 yd³)*



EJC Mining Equipment

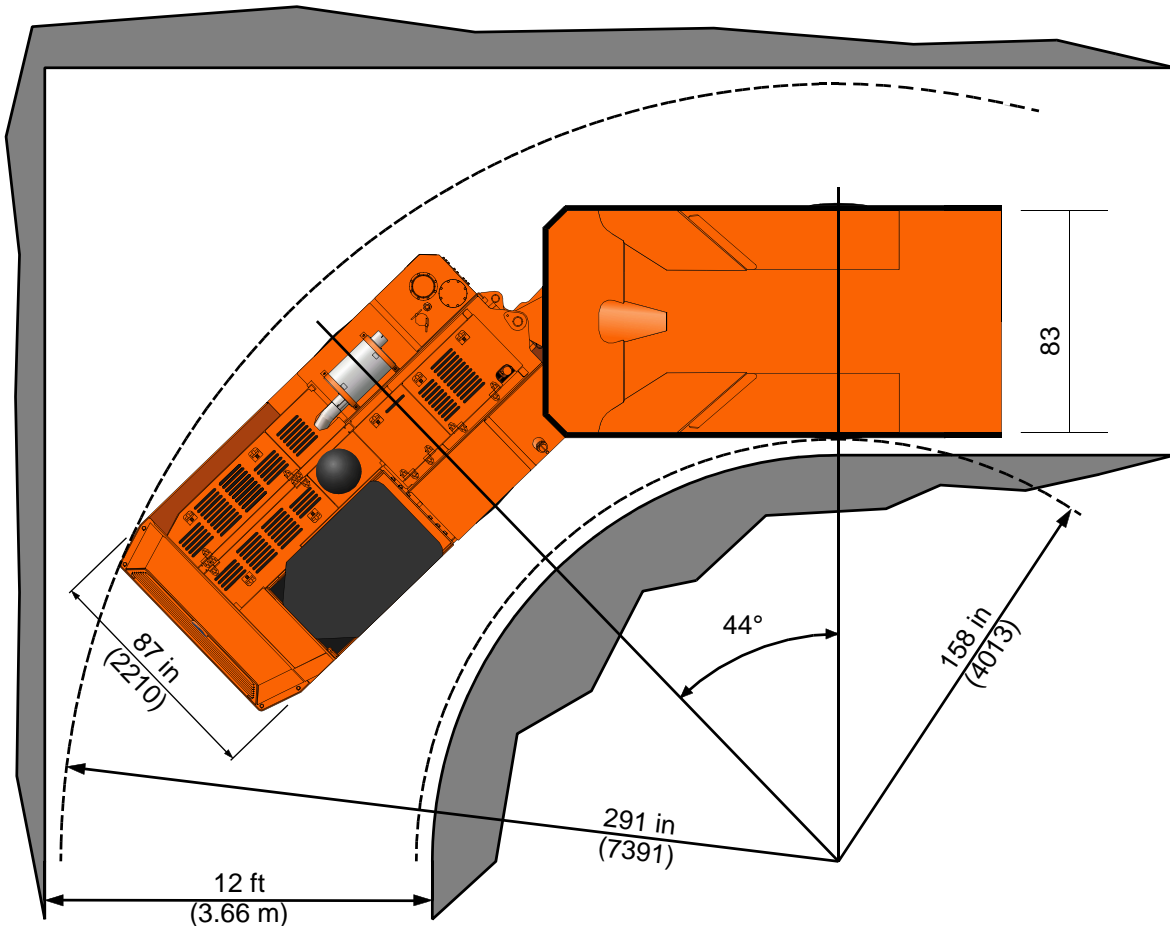
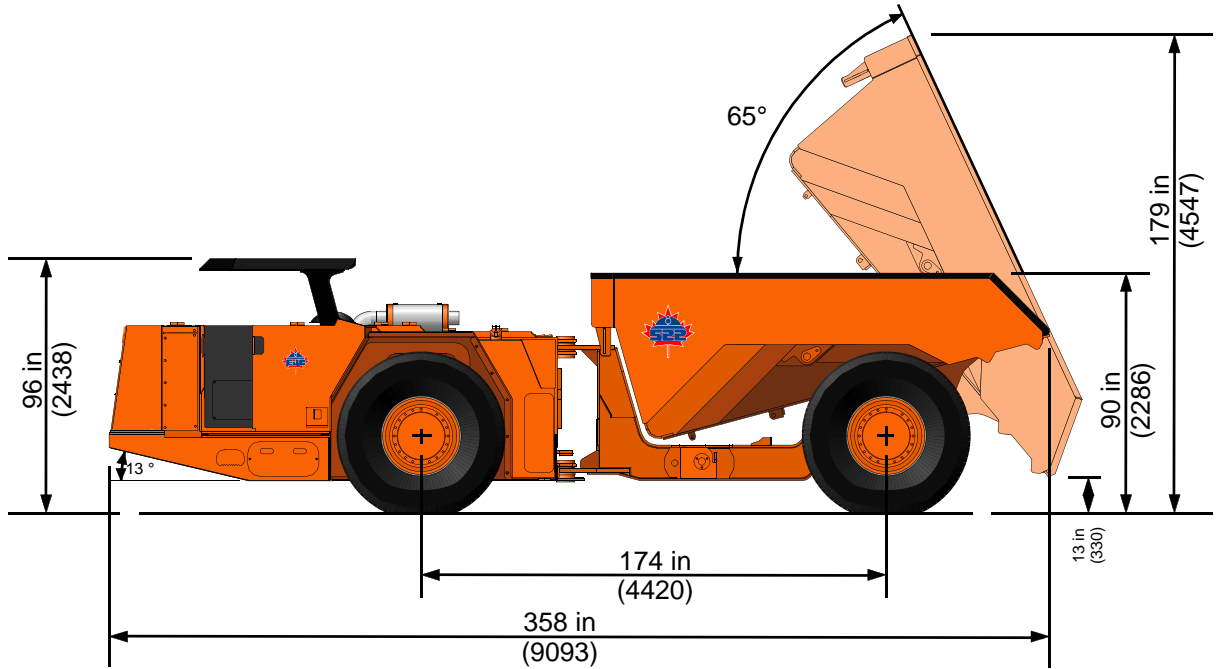
Division of Sandvik Mining and Construction Canada Inc.
4445 Fairview Street, Burlington Ontario, Canada L7L 2A4
Tel.: (905) 632-4940



Revision Date: 28/6/05

Email: ejc.loaders@sandvik.com
Web: <http://www.ejc.sandvik.com>

General Arrangement



Standard Unit Specifications

General Information

Main Dimensions

Total length	9093 mm	358 in
Total width	2210 mm	87 in
Height with safety canopy	2438 mm	96 in
Height of dump box	2286 mm	90 in
Dump Height	4547 mm	179 in

Operating Weights

Total	22997 kg	50700 lb.
Front axle	17237 kg	38000 lb.
Rear axle	5761 kg	12700 lb.
Shipping weight	22725 kg	50100 lb.

Loaded Weights

Total	42955 kg	94700 lb.
front axle	21408 kg	47200 lb.
rear axle	21546 kg	47500 lb.

Capacities

Payload	20 tonnes	22 tons
Dump box volume (SAE)	10.2 m ³	13.4 yd ³

Dump Box Motion Times

Discharging time	14 sec.
Dumping angle	65 °

Driving Speeds Forward and Reverse (Loaded)

1st gear	6.3 km/h	3.9 m.p.h.
2nd gear	11.4 km/h	7.1 m.p.h.
3rd gear	20.0 km/h	12.4 m.p.h.
4th gear	36.0 km/h	22.4 m.p.h.

Frame

Rear and front frame	Welded steel box construction
Material	G40.21 - 50wt Cat. #3
Central hinge	Full plate, clevis type with spherical bearings
Dump box construction	Welded steel box construction
Material	G40.21 - 50wt Cat. #3

Power Train

Engine

Diesel engine	Detroit Diesel Series 50, Tier 2	
Output	235 kW (315 HP) @ 2100 RPM	
Torque	1424 Nm (1050 lb.ft.) @ 1350RPM	
Number of cylinders	In line 4	
Displacement	8.5 litres (519 in ³)	
Cooling system	Liquid Cooled	
Combustion principle	Direct injected, turbo charged, after cooled	
Air filtration	Donaldson, dry type	
Electric system	24 V	
Exhaust system	Catalytic purifier with silencer	
Fuel Capacity	341 l	90 US gal.

Converter

Dana SOH C8000 series	Single stage, 2.292 torque multiplication ratio, .895 offset ratio with manual lock-up
-----------------------	--

Transmission

Dana SOH 6000 series	4-speed forward and reverse
----------------------	-----------------------------

Axles

Front axle	Dana SOH 19D2748, standard differential, oscillating $\pm 7^\circ$.
Rear axle	Dana SOH 19D2748, standard differential, fixed.

Tires

Tire size	18.00R25 **		
Type	Bridgestone VEL E3**		
Air pressure, front	689 kPa	6.89 bar	100 psi
Air pressure, rear	689 kPa	6.89 bar	100 psi

Systems

Steering Hydraulics

Full hydraulic power steering, centre articulated with double acting steering cylinders. Open centre system with a gear pump and wheel steer control.

EJC Mining Equipment

Division of Sandvik Mining and Construction Canada Inc.
4445 Fairview Street, Burlington Ontario, Canada L7L 2A4
Tel.: (905) 632-4940



Revision Date: 28/6/05

Email: ejc.loaders@sandvik.com
Web: <http://www.ejc.sandvik.com>

Turning Radius

Inner	4013 mm	158 in
Outer	7391 mm	291 in
Turning angle	44 °	

Main Components

Hydraulic pump	Gear	
Control valve	Pilot operated	
Steering cylinders	114.3 mm bore X 63.5 mm rod (4½" X 2½")	

Pressure Settings

Main relief	15 MPa	151 bar	2200 psi
Port relief valves	16.5 MPa	165 bar	2400 psi

Dump Box Hydraulics

Full hydraulic open-centre system with one gear pump. Oil flows to the dump box hydraulic system from the pump when the steering system is not in use. Push button dump box control.

Main Components

Dump cylinders	Telescopic, 159 mm bore X 133 mm first sleeve X 108 mm second sleeve (6¼" X 5¾" X 4¾")	
Hydraulic pump	Gear pump	
Control valve	Pilot operated	

Pressure Settings

Main relief	15 MPa	151 bar	2200 psi
Port reliefs	16.5 MPa	165 bar	2400 psi
Hyd. oil tank capacity	378 l	100 US gal.	

Standard Brakes

Service brakes are spring applied/hydraulically released, liquid cooled (LCB) multi-disc brakes on all wheels. Service brakes also function as an emergency brake, when the emergency brake system is engaged.

Main Components

Pressure accumulators	Piston type with charging valve	
Brake pedal valve	Modulated	

Electrical Equipment

Alternator	24V 70A, min
Batteries	2 x 12 V, 950 CCA
Starter	24 V, Heavy Duty
Driving lights	4pcs front, 2pcs rear

Other Standard Equipment

- Electric shift
- Central hydraulic pressure test points
- Central manual lubrication system
- SAE ORS hose fittings

Manuals

All manuals are delivered on CD-ROM in Adobe Acrobat (PDF) format.

Distribution

Manual Type	Customer	Market Area
Spare parts manuals	3 Copies	1 Copy
Operator's manual	3 Copies	1 Copy
Service manual	3 Copies	1 Copy

Optional Equipment Specifications

Available Alternative Equipment

Operator's compartment	Fully enclosed forward facing operator's compartment with air conditioning and wheel type steering control.
Auto lube system	Lincoln modular

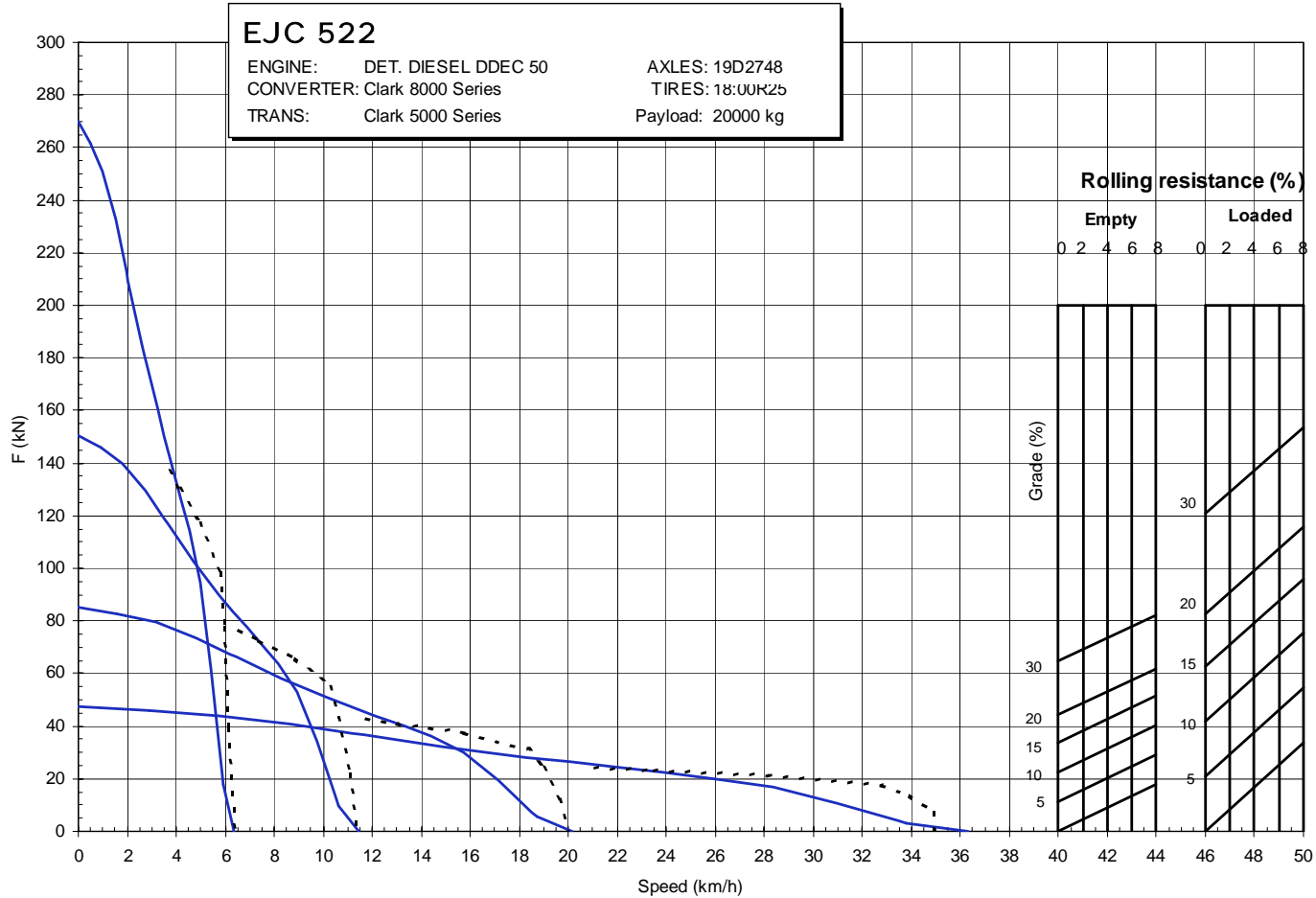
Available Add-On Options

Operator's compartment	ROPS/FOPS Canopy	
	Electronic display module (Detroit Series 50)	
Fire suppression systems	Manual - Ansul 6 nozzles, 1 tank	
	Automatic (Checkfire II) - Ansul 6 nozzles, 1 tank	
Hand held fire extinguishers	4.5 kg	10 lb.
	9.1 kg	20 lb.
Exhaust system	HTI insulation on manifold	
	Jacobsen exhaust brake	
Emergency steering system	EC regulations	
Dump box	Hydraulically operated tail gate	
	Ejector Box	



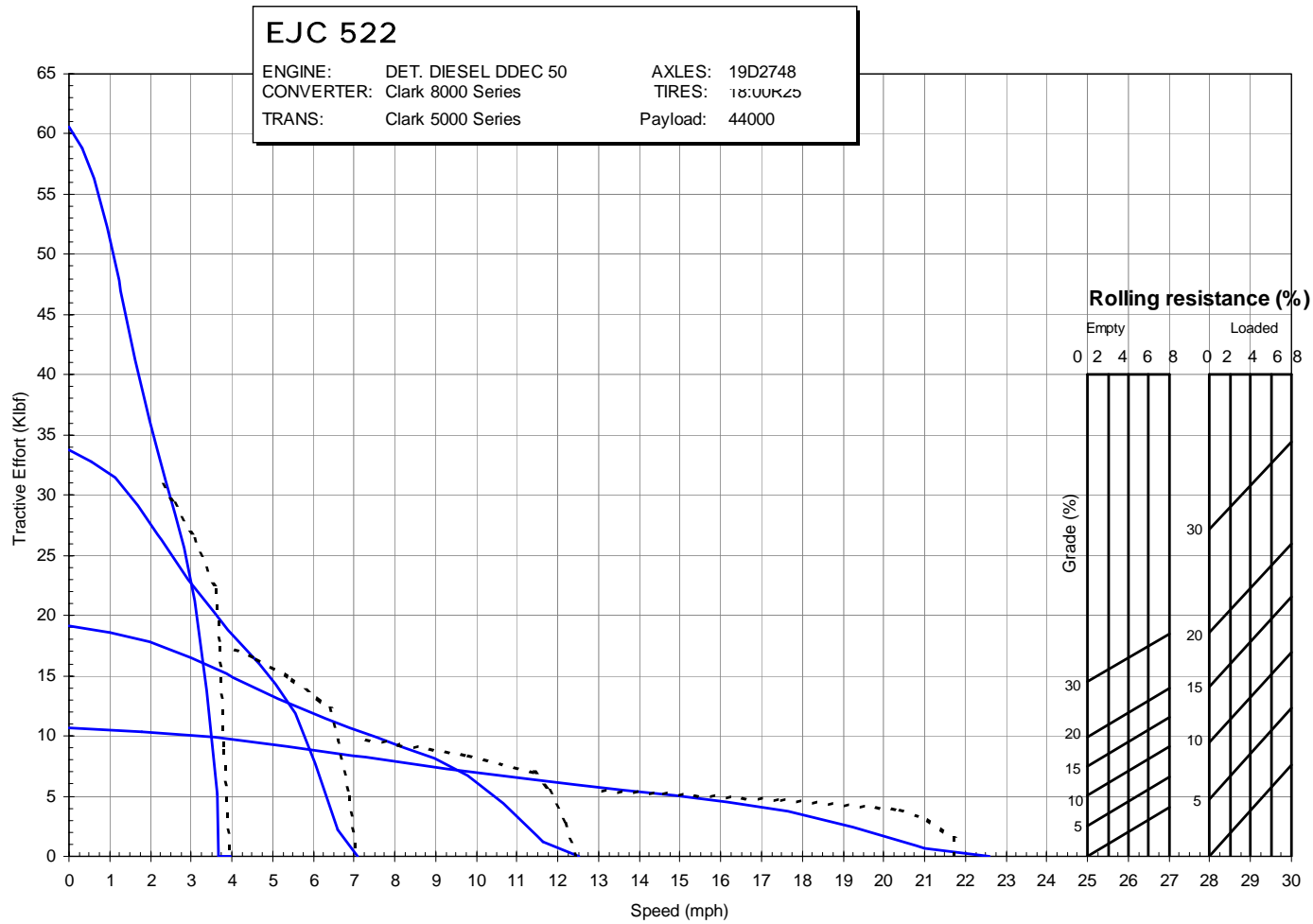


Tractive Effort Curve (Metric Units)





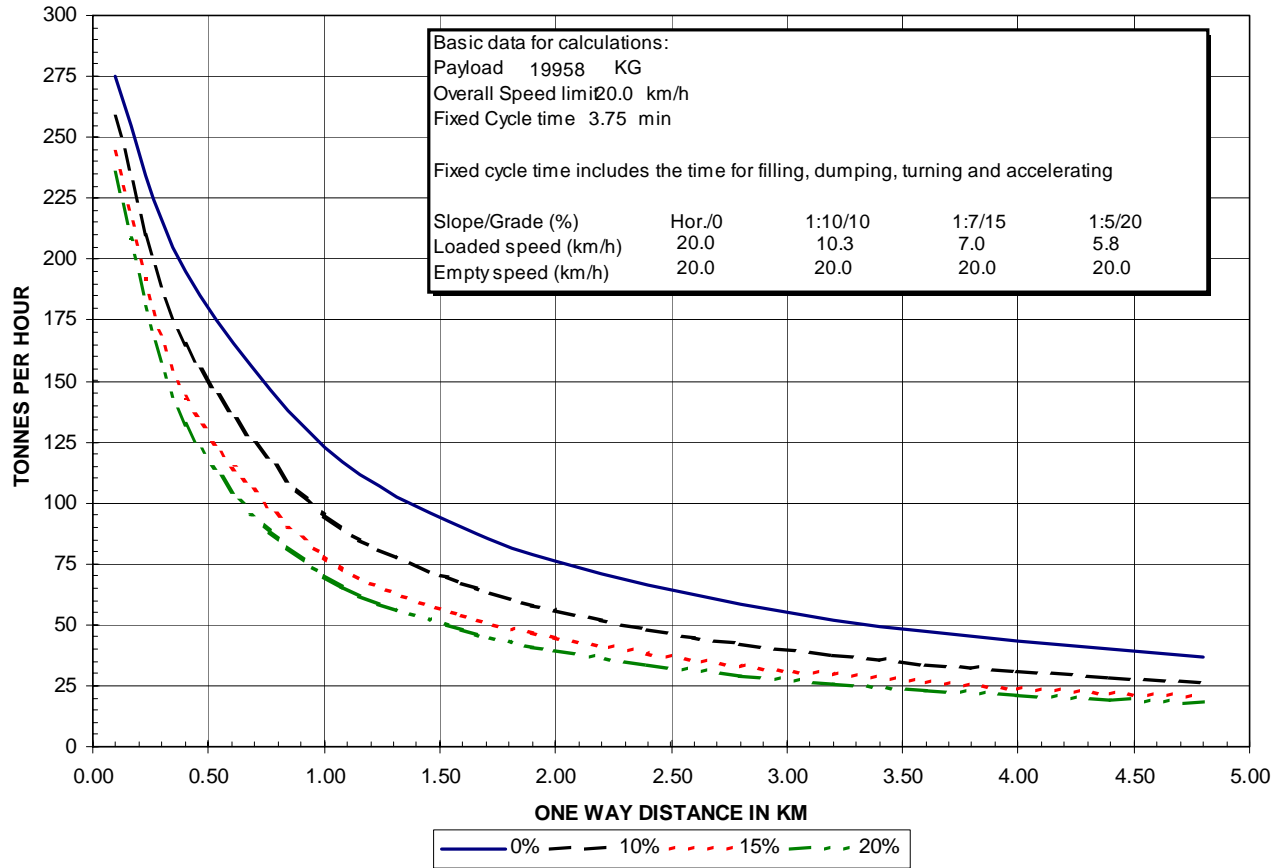
Tractive Effort Curve (US Units)





Productivity Curve (Metric Units)

EJC 522 PRODUCTIVITY





Productivity Curve (US Units)

EJC 522 PRODUCTIVITY

