



EJC 417

TECHNICAL SPECIFICATION

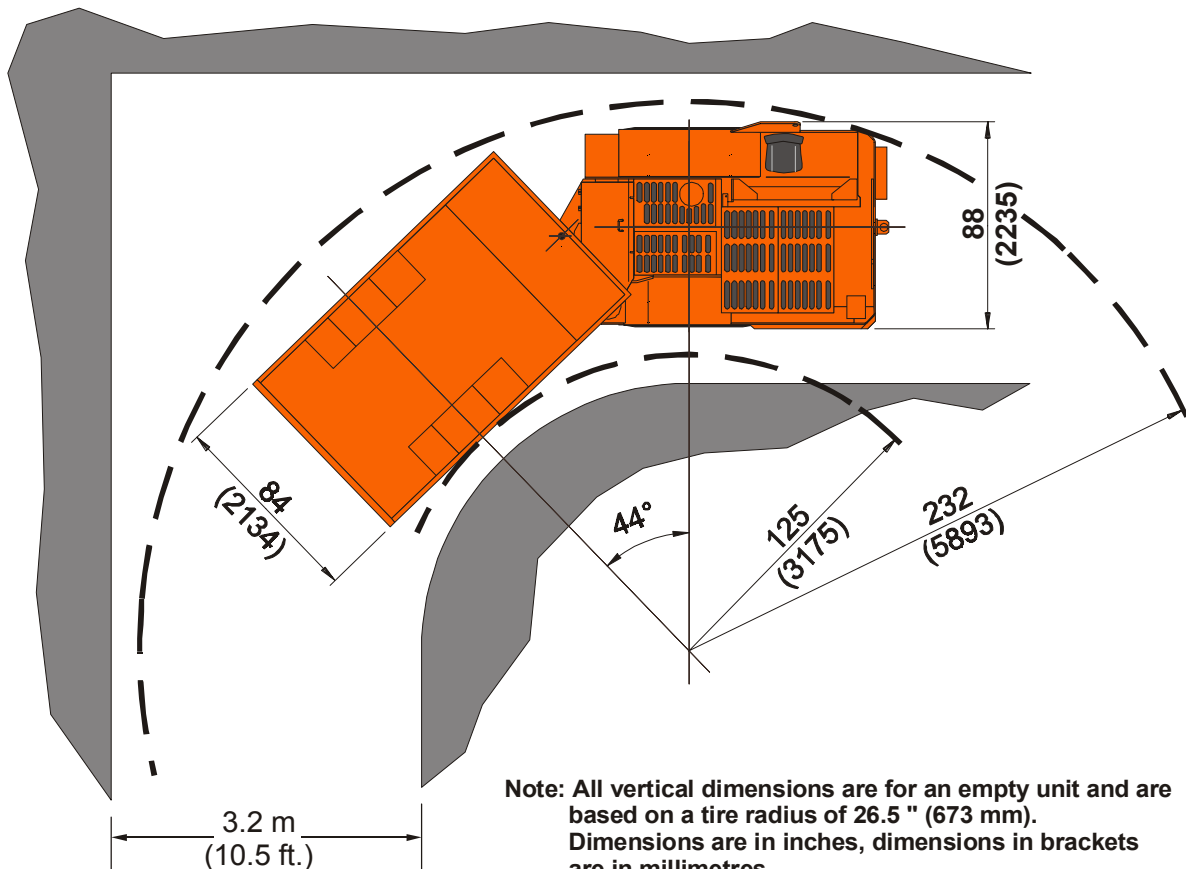
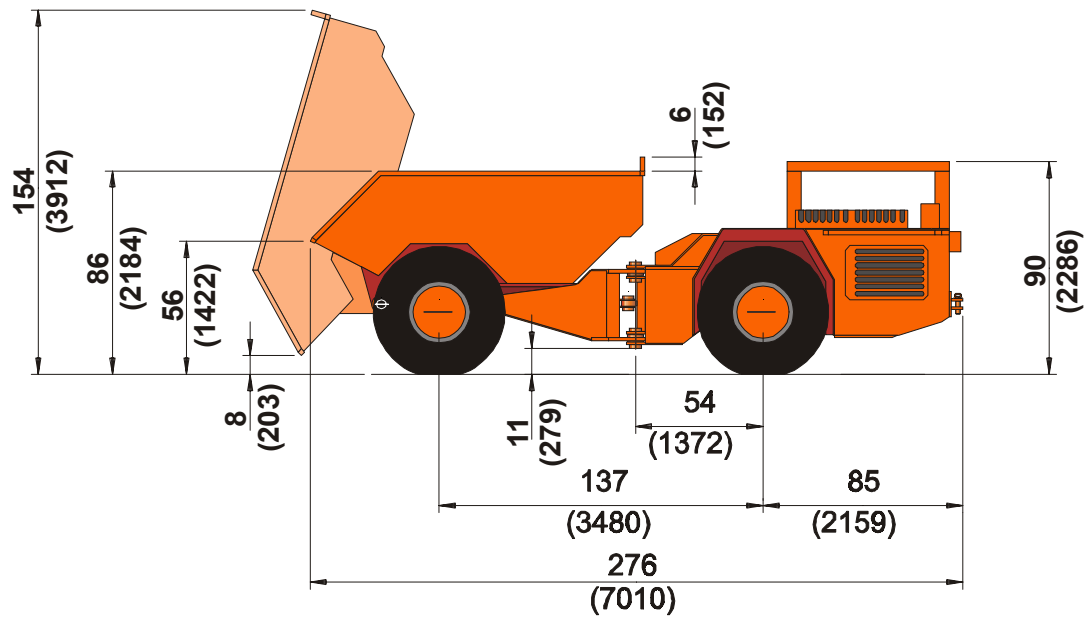
***A COMPACT TRUCK DESIGNED FOR THE MOST
CHALLENGING WORK***

CAPACITY: 17 SHORT TONS (15.4 TONNES)





Main Dimensions



Note: All vertical dimensions are for an empty unit and are based on a tire radius of 26.5" (673 mm). Dimensions are in inches, dimensions in brackets are in millimetres. Optional ROPS canopy shown.



Specification Sheet

SANDVIK TAMROCK
EJC Loaders Division
EJC 417

CUSTOMER: _____
 P.O. NBR. _____
 SHIP DATE _____

4/21/99

STANDARD UNIT

Detroit Diesel Series 40E diesel engine rated at 190 hp (142 kw)
 Donaldson dry type air cleaner
 ECS catalytic exhaust purifier with silencer
 Clark powershift transmission
 Clark torque converter
 Clark axles with "Posi-Stop" brakes
 14.00 R24, L-4 radial tires
 11 yd³ (8.4 m³) dump box
 Mechanical single lever dump control
 Pilot operated stick steer control
 Hydraulic transmission shift controls
 Central hydraulic pressure test points
 Electric gauges
 24-volt DC electrical system
 Central manual lube
 SAE type hose fittings
 Four (4) English parts manuals
 4 operator and 4 service manuals

BASE UNIT PRICE

A1 = no impact on delivery time; A2 = delivery time on request

OPTIONAL EQUIPMENT

- ☐ A2 * Caterpillar 3304 PCT rated at 165 hp (123 kw)
- ☐ A2 * Deutz BF6M1013EC diesel engine, 190 hp (142 kw)
- ☐ A1 * 8.5 yd³ (6.5 m³) dump box
- ☐ A1 * 7.0 yd³ (5.4 m³) dump box
- ☐ A2 * Automatic lubrication system (Lincoln Modular)
- ☐ A1 SAE ROPS canopy
- ☐ A1 Fire suppression system, Ansul 8 nozzle
- ☐ A1 Hand held fire extinguisher 10 lb
- ☐ A1 Hand held fire extinguisher 20 lb
- ☐ A2 Enclosed operator's cab with A/C
- ☐ A1 Back-up alarm, audible
- ☐ A1 Emergency steering system (SAE J-1511), electric
- ☐ A1 Speedometer option
- ☐ A1 Split dump box rework
- ☐ A1 Spare rim & tire, standard
- ☐ A1 Spare rim
- ☐ A1 Additional spare parts manuals
- ☐ A1 Additional workshop manuals
- ☐ A1 CAT Base manuals

(*) Replaces the standard equipment





Standard Unit

Main dimensions

Total length	7 010 mm (276")
Total width	2 235 mm (88")
Height with safety canopy	2 286 mm (90")
Height of dump box	2 184 mm (86")
Dump Height	3 912 mm (154")

Weights

Operating weight	15 014 kg (33 100 lb.)
Total loaded weight	30 436 kg (67 100 lb.)

Axle weights without load

front axle	9 609 kg (21 184 lb.)
rear axle	5 405 kg (11 916 lb.)

Axle weights with load

front axle	10 653 kg (23 436 lb.)
rear axle	19 806 kg (43 664 lb.)

Capacities

Payload	15 422 kg (34 000 lb.)
Dump box volume (SAE)	6.9 - 8.4 m ³ (7.0 - 11.0 yd ³)
Dump box motion times	
Discharging time	14 sec.
Dumping angle	75°

Driving speeds forward and reverse (Loaded)

1st gear	4.5 km/h (2.8 m.p.h.)
2nd gear	9.0 km/h (5.6 m.p.h.)
3rd gear	15.1 km/h (9.4 m.p.h.)
4th gear	25.1 km/h (15.6 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 design

Construction	Welded steel box construction
Material	Hardox 400 BHN

Standard Engine

Standard engine

Diesel engine	Detroit Diesel Series 40E
Output	141 kW (190 Hp) @ 2 300 rpm
Torque	658 Nm (485 lbf-ft) @ 1 400 rpm
Number of cylinders	In line, 6
Displacement	7.64 l (466 in ³)
Cooling system	Liquid cooled
Combustion principle	Turbo charged, after cooled, direct injected, 4 cycle
Air filtration	Donaldson, dry type
Electric system	24 V
Exhaust system	ECS catalytic purifier with silencer

Transverter

Clark MHR 28421	Clark 13.1 MHR 28421, 4 speed forward and reverse, single stage converter, 2.727:1 stall torque ratio.
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Standard axles

Front axle	Clark 16D2149, standard differential, oscillating ± 8°
Rear axle	Clark 16D2149, standard differential, fixed

Standard tires

Tire size	14:00 R24
Type	Michelin XKDIA***
Air pressure, front	552 kPa (5.52 bar) (80 psi)
Air pressure, rear	552 kPa (5.52 bar) (80 psi)

Steering hydraulics

Full hydraulic power steering, centre articulated with a double acting steering cylinder. Open centre system with a gear pump and pilot operated stick steer control

Turning radius:

Right	inner	3 175 mm (125 ")
	outer	5 893 mm (232 ")
Turning angle		44 °

Main components in steering system:

Hydraulic pump	Gear pump
Control valve	Pilot operated
Steering cylinder	EJC 127 mm bore X 51 mm rod (5.0" X 2.0")

Pressure settings:

Main relief	13.8 MPa (138 bar) (2 000 psi)
Port relief valves	13.8 MPa (138 bar) (2 000 psi)

Dump box hydraulics

Full hydraulic open-centre system with one gear pump. Pilot operated lever dump box control.

Main components:

Dump cylinder	2 stage telescopic 184/152 mm (7.25/6.0")
Hydraulic pump	Pilot operated
Control valve	Pilot operated

Pressure Settings:

Main relief	13.8 MPa (138 bar) (2 000 psi)
Port reliefs	13.8 MPa (138 bar) (2 000 psi)
Hydraulic oil tank capacity	Approx. 125 l (33 gal)

Standard brakes

Service brakes are spring applied/hydraulically released, liquid cooled (LCB) multi-disc brakes on all wheels with two separate circuits for the front and rear axles. Service brakes also function as an emergency brake, when the emergency brake hand valve is on.

Main components in the brake system:

Pressure accumulators	Piston type with charging valve
Brake pedal valve	Modulated

Electrical equipment

Alternator	24V 60 A, min
Batteries	2 x 12 V, 950 CCA
Starter	24 V, Heavy Duty
Driving and working lights	4pcs front, 2pcs rear

Standard manuals (customer)

3 pcs Spare parts manuals	English
3 Operators manual	English
3 Service manual	English

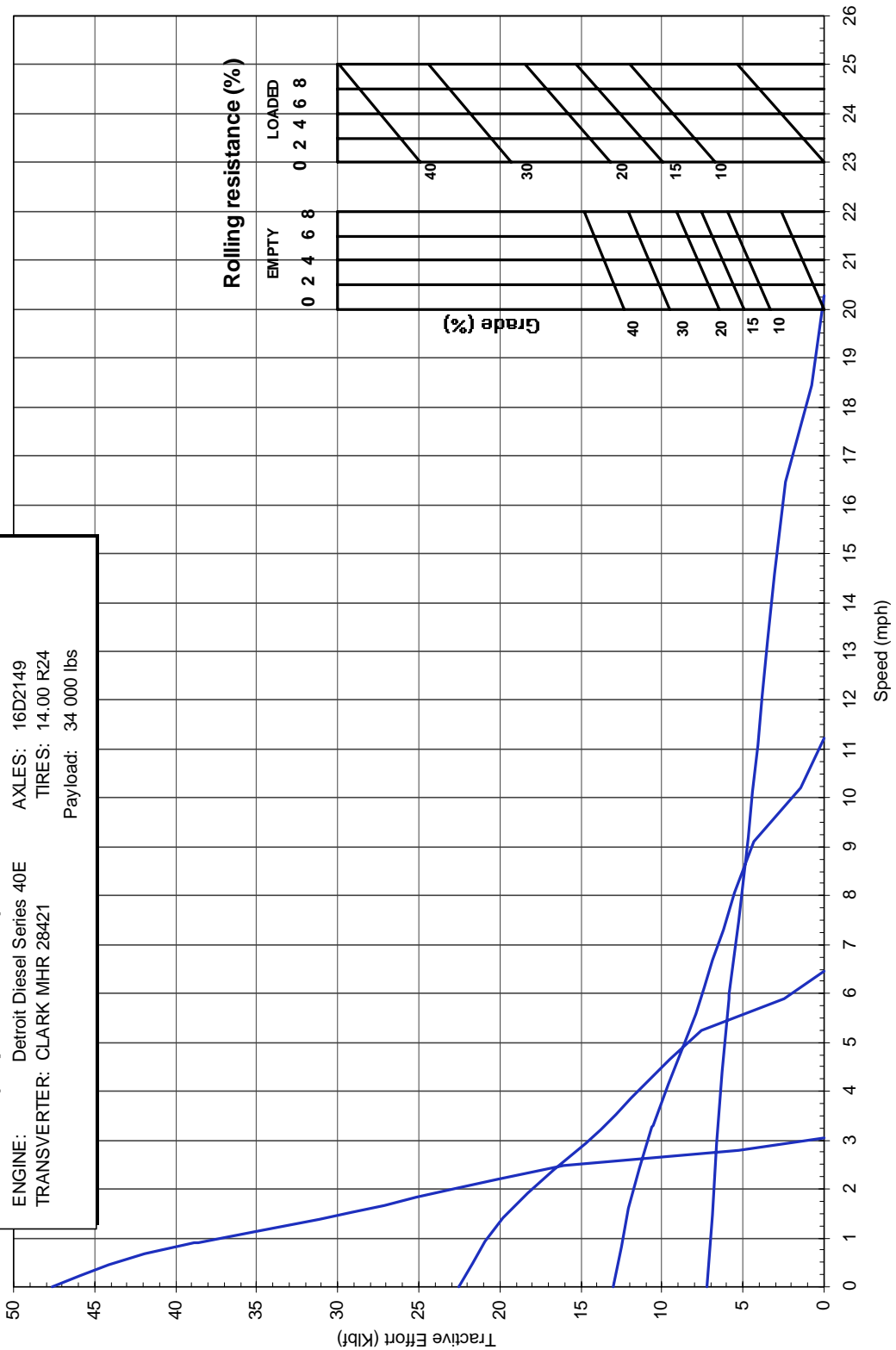
Standard manuals (market area)

1 pcs Spare parts manuals	English
1 Operators manual	English
1 Service manual	English





Speeds on Grade



EJC 417 (Imperial Units)

ENGINE: Detroit Diesel Series 40E
 TRANSMITTER: CLARK MHR 28421
 AXLES: 16D2149
 TIRES: 14.00 R24
 Payload: 34 000 lbs

