Standard Equipment

CAB:
Air Conditioner
5.4kW (18 500 BTU/hr)
Acoustic Lining
Door Locks
Floor Mat
FOPS Body Bguard /
FOPS Protection
ISO 3449
Heater and Defroster
10.3 kW (35 000 BTU/h)
Interior Light /Courtesy Light
Seat, Operator
Seat, Passenger
Seat Belts SAE J386
Steering Column – adjustable
Sun Visor – full cab width
Tinted Glass
Utility Compartment
Windshield Wipers, 2 speed,
and Washers

Controls:
Battery Isolator
Automatic Transmission Shift
Transmission Test Button
Power/Economy Key Switch
Manual Mode Key Switch

Gauges – electric:
Converter Temperature
Engine Coolant Temperature
Engine Oil Pressure
Fuel
Speedometer/Odometer
Tachometer/Hourmeter
Transmission Oil Pressure

Indicators – Light andAlarm:
Brake Pressure, front
Brake Pressure, rear
Stearing Pressure
Steering / Brakes oil level
Transmission, "Do not shift"

Indicator Lights only:
Air Cleaner Restriction
Alternator Not Charging
Body Up
Brake Oil Temperature
Converter Drive
Coolant Level
Coolant Temperature
Direction Indicators
Low Engine Oil Pressure

Indicator Lights continued:
Headlamps, Main Beam
Parking Brake 'On'
Retarder 'On'
Steering Filter Restriction
Transmission 'Check'
Transmission Filter
Restriction
Transmission Manual Mode
Transmission Oil
Temperature
Warning Light Test

GENERAL:
Accumulator Steering
Air Cleaners (3), two stage
Body Down Signal
Body Heating, Exhaust
Body Hoist, Servo Actuated
Cold Start Kit
Coolant Filter
Diagnostic Pressure Test Points
Downshift Inhibitor
Dual Brake System
Engine pre–lube starter
Engine Pan Guard
Exhaust Muffler, part time
Front Brake Pressure Reduction
Selector
Fuel Sight Gauge
Headlights – Quartz Halogen (4)
Horn, Dual Electric,
117dB SAE J1105
Mud Flaps
Operator Arm Guard
Parking Brake
Rear View Mirrors –4
Radiator, replaceable tube core
Retarder, Transmission or Oil–
cooled Disc Brakes
Retarder Light–amber, rear
Reverse Alarm
Reversing Light quartz halogen
Rock Ejectors
Secondary Brake System
Security Kit
Side, Tail, Stop, Direction
Indicators and Hazard
Warning Lights
Tow Points, front and rear
Transmission Guard
Radio/Cassette Player

Specifications subject to change without notice.

Optional Equipment

Automatic Lubrication System
Body, Enlarged Capaclty
Body, Heavy Duty
Body Wear Plates (floor, end,
side and front protection)
Canopy, ROPS, frame mounted
Fan Clutch
Fast Fuel Adaptor
Fire Suppression System
Exhaust Mufflex, full time
Fire Extinguisher
On–board Weighing System
Planetary Ratio 10.5:1
Television Monitor, Rear View
Spillguard Extension, folding
Traction Bias Differential
Tyres, 27.00R49** Radial

Weights

	K	lb
Chassis, with hoists	53 240	117 380
Body, standard	15 380	33 900
Net Weight	68 620	151 280
Rating Payload	91 000	200 617
Permissible gross weight*	160 000	352 734

* Permissible gross vehicle weight with options, attachments, full fuel tank and payload.

Weight distribution:	Front Axle	Rear Axle
Empty	49%	51%
Loaded	34%	66%

Service Capacities

SERVICE CAPACITIES	litres	(US gal)
Engine Crankcase and Filters	134	(35.4)
Transmission and Filters	100	(26.0)
Cooling System	304	(80.3)
Fuel Tank	1090	(288.0)
Steering Hydraulic Tank	61	(16.1)
Steering Hydraulic System (Total)	72	(19.0)
Body Hydraulic Tank	297	(78.5)
Body Hydraulic System and Brake Cooling System	557	(147.1)
Planetaries (Total)	57	(15.1)
Differential	61	(16.1)
Front Ride Strut (Each)	27	(7.1)
Rear Ride Strut (Each)	18	(4.8)
Power Take Off	2	(1.1)

Inner Mongolia North Hauler Joint Stock Co., Ltd. (China–U.k–USA.JVC)
Addre:NHL Building,Rare-Earth Zone,Bao Tou,Inner Mongolia
Tel:+86–472–2642010 Fax:+86–472–2207538
P.C.:014030 Http://www.chinanhl.com

NHL TEREX

TR100A Dump Truck

Rated Payload–91t (100 US Ton)
Heaped capacity–57m ^{3} (74.5yd ^{3})
High Torque Rise, Economical Cummins Engine
Automatic Electronic Control Allison Transmission
Full Hydraulic disc Brakes; Dual Mode Retardation
Brand Now Cab with Full Scene, Low Noise

Frame

Full box section frame rails, integral front bumper, closed–loop crossmember and rear torque tubes of high yield strength steel and tail seat.Crossmember connections are high strength alloy steel castings.

Engine

Model ..... Cummins QST30
Type .....4 Cycle Turbocharged/ Aftercooled
Gross Power @ 2 100 rev/min .....783 kW (1 050 hp)
Net Power @ 2 100 rev/min ..... 727 KW (975 hp)

Gross Power rating to SAE J1995
Engine requires no deration up to 2500 m (8201 ft) altitude.
Maximum Torque .....4 629 Nm (3 414 lbf ft) @ 1 300 rev/min
Cylinders/Configuration 12V
Bore x Stroke ..... 140 x 165 mm (5.51 x 6.5 in)
Displacement 30.5L
24 volt negative ground electrical system. Four 12 volt 195 Ah Batteries with master disconnect switch. Two 9 kW starters. Neutral start. 100A alternator with integral voltage regulator

Transmission

Allison H8610AR CEC2 Automatic Electronic Control. Remote Mounted in the frame with integral TC 890 torque converter and planetary gearing. Six speeds forward, one reverse. Automatic lock–up in all speed ranges. Downshift inhibitor Hydraulic retarder. Speeds with standard planetary:

	Forward						Reverse
	1st	2nd	3rd	4th	5th	6th	R1
Ratios:	4.24	2.32	1.69	1.31	1.00	0.73	5.75
km/h:	8.2	15.0	20.6	26.5	34.8	47.6	6.0
mile/h:	5.1	9.3	12.8	16.5	21.6	29.6	3.8

Drive Axle

Heavy duty axle with full floating axle shafts, single reduction spiral bevel gear differential, and planetary reduction at each wheel.

		Standard	Optional
Ratios:	Differential	2.16:1	2.16:1
	Planetary	13.75:1	10.50:1
	Total Reduction	29.70:1	22.68:1

Suspension

Front: King pin strut type independent front wheel suspension uses self–contained, variable rate, nitrogen/oil cylinders.
Rear: Variable rate nitrogen/oil cylinders with A –frame linkage and lateral stabilizer bar.
Maximum Strut Stroke: Front ..... 235 mm (9.25 in)
Rear ..... 175 mm (6.90 in)
Maximum Rear Axle Oscillation ..... ± 7.0 Degrees

Tyres

Rim Width
Standard: Front and Rear 27.00–49 (48PR) E–4 .....19.5in

Consult tyre manufacturers for optimum tyre selection and correct t–km/h (ton–mile/h) capacity for application.

Brakes

SERVICE – All hydraulic brake system control.Transmission mounted pressure compensating piston pump provides hydraulic pressure for brakes and steering. Independent circuits front and rear. Each circuit incorporates a nitrogen/hydraulic accumulator which stores energy to provide instant braking response.

Front Dry Disc
Disc diameter .....965 mm (38 in)
Pad area, total ..... 2064 cm^2 (320 in^2)
Rear Oil cooled, multiple disc, completely sealed from dirt and water.
Braking surface. total .....87 567 cm^2 (13 573 in^2)

PARKING – Rear brakes applied by spring loaded opposing piston on disc pack, hydraulically released.

RETARDATION – Modulated lever control of rear disc brakes or hydraulic retarder in transmission. 920 kW (1 234 hp) continuous.

SECONDARY – Park push button solenoid control applies service and parking brakes. Automatically applies when engine is switched off. Parking brake applies when system pressure falls below a pre–determined level.

Brakes conform to ISO 3450.

Steering

Independent hydrostatic steering with closed–centre steering valve, accumulator and pressure compensating piston pump. Accumulator provides uniform steering regardless of engine speed. In the event of loss of engine power it provides steering of approximately two lock–to–lock turns.

A low pressure warning light activates should the system pressure fall below 82 bar (1186 lbf/in ^{2}).

Steering conforms to ISO 5010.

Maximum Tyre Steering Angle ..... 39°

Hoist

Two body hoists mounted inside the frame rails. Hoists are two–stage with power down in the second stage. The body hydraulic system is independent of the steering hydraulic system.

System pressure .....190 bar (2750 lbf/in^2)
Body Hydraulic Pump Flow Rate
@ 2 100 rev/min .....365 litre/min (97 US gal/min)
Body Raise Time 16.3 Seconds Body LowerTime 18 Seconds

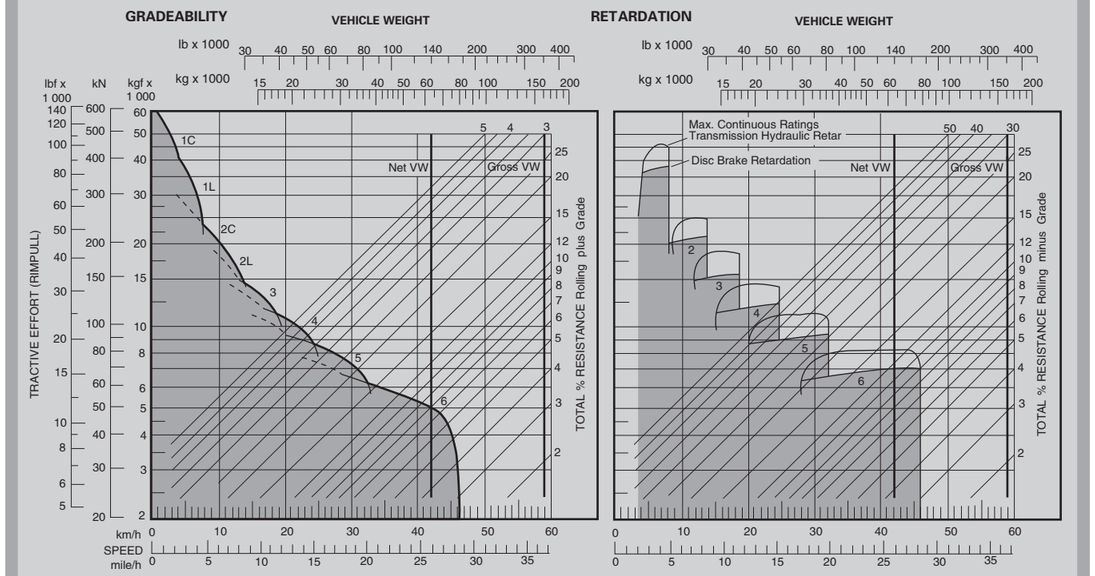
Body

Longitudinal 'V' type floor with integral transverse box–section stiffeners. The body is haust heated and rests on resilient impact absorption pads.
Body wear surfaces are high hardness abrasion resistant steel of yield strength FOPS Protection ISO 3449.

Thickness: Floor .....19 mm (0.75 in)
Side .....10 mm (0.39 in)
Front, lower ....10 mm (0.39 in)
Volumes: Struck (SAE) .....41.6 m^3 (54.4 yd^3)
Heaped 2:1 (SAE) .....57.0 m^3 (74.5 yd^3)

Performance Data

Graphs based on o% Rolling Resistance



Instructions: From intersection of Vehicle Weight with Percentage Resistance line read across to determine maximum Gear attainable, and then downwards for Vehicle