FSA20-EQU18.0, ITEM# 33

DUMP TRUCK: Articulating Off Road Dump Truck - 50,000 LB 725 SHERIFF'S CONTRACT WORKSHEET

555-6401	725 04A ARTICULATED TRUCK
480-1973	NO ROOF LIGHTS
480-1971	NO MACHINE SECURITY SYSTEM
497-9403	NO REAR WIPER
497-9403 480-1968	NO RADIO/STEREO SYSTEM
500-5946	MIRROR, STANDARD.
485-0330	SEAT, STANDARD
566-5659	SEAT BELT, W/ INDICATION
462-5037	CAB, STANDARD
481-8888	PRODUCT LINK, CELLULAR PLE641
485-0336	NO PAYLOAD
503-2045	TANK, STANDARD FUEL
380-3578	TIRES, 23.5R25 BS ** VLT E-3
583-9949	ROW ENGINE ARRANGEMENT
396-1948	AID, STARTING, STANDARD
555-6418	FILM GROUP, ANSI
555-6412	CHASSIS, STANDARD
555-6462	BODY, STANDARD .
555-6414	EXHAUST, STANDARD
455-3502	NO TAILGATE
381-0092	ANTIFREEZE, -36C (-33F)
421-8926	SERIALIZED TECHNICAL MEDIA KIT

CATERPILLAR MACHINE PRICE LIST 725

725 TRUCK PETERLEE, ENGLAND Ship Weight lbs

LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Auto shift six-speed forward and single speed reverse transmission Cat C9 engine. Tier IV Final emission package. Differentials: standard with automatic clutched inter and cross-axle differential locks Dual circuit enclosed multiple disc brakes Automatic Retarder Control (ARC) S.O.Ssm sampling valves Three axle, six-wheel drive Machine speed limiter Automatic Retarder Control Hill Assist Waiting Brake

ELECTRICAL

US-A D

Electrical system: 24 volt, 5A 24 to 12 volt converter Lights: cab interior, front, side, rear, two reversing, work lights, two stop/ tail lights, front and rear direction indicators Hood Raise Lower Switch

OPERATOR ENVIRONMENT

Climate control with R134A refrigerant Adjustable air vents CAT rear view camera Touch Screen incorporating the rear view camera feed Electro hydraulic hoist control Glass windows: laminated front, toughened rear and toughened opening sides Heater and defroster with four-speed fan

Horn, electric Radio ready ROPS/FOPS cab Seat, fully adjustable, air suspension Seat, padded companion/trainer Seat belts: two retractable Secondary steering - electro hydraulic Storage: cup holder, under seat storage, behind seat storage and coat hook Sun visor Tilt and telescopic steering wheel Windshield wiper and washer, two speed, intermittent (front)

OTHER STANDARD EQUIPMENT

Reverse/back-up alarm Body, adapted for exhaust heat Guards: rear window and radiator, crankcase and axle Mirrors: extensive arrangement for improved visibility Mud flaps: wheel archand body mounted with transportation tie backs Spill guard, front, integral part of fabricated body Starting receptacle, electric, remote Vandalism protection: lockable caps for fuel tank, DEF tank and hydraulic oil tank Cat Detect with Stability Assist Rollover Warning System Assisted Hoist System



725Articulated Truck

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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Body Plate Thickness	Retarding Performance
Service Refill Capacities	



Engine		
Engine Model	Cat C9.3	
Gross Power – SAE J1995	255 kW	342 hp
Net Power – SAE J1349	249 kW	334 hp
Net Power – ISO 14396	252 kW	338 hp
Bore	115 mm	4.5 in
Stroke	1149 mm	45.2 in
Displacement	9.3 L	567.5 in ³

- The power ratings apply at rated speed of 1,700 rpm when tested under the conditions for the specified standard.
- The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler, and fan at minimum speed.
- Net power when the fan is at maximum speed is 249 kW (334 hp) per the SAE reference conditions.
- Meets U.S. EPA Tier 4 Final, either EU Stage V or EU Stage IV*, Japan 2014, and Korea Tier 4 Final emission standards.
- DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard ISO 22241-1. Requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.
- *Stage IV engines comply with the transition provisions of the EU nonroad emission regulation.

No Engine Derating Below	914 m	3,000 ft
Peak Engine Torque Gross (SAE J1995)	1729 N·m	1,275 lbf-ft
Peak Engine Torque Net (SAE J1349)	1712 N·m	1,263 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

Weights		
Rated Payload	24 tonnes	26.5 tons

Body Capacities		
Heaped SAE 2:1	15 m³	19.6 yd³
Struck	11 m³	14.4 yd³
Tailgate Heaped SAE 2:1	15.6 m³	20.4 yd³
Tailgate Struck	11.1 m³	14.5 yd³
Transmission		
Forward 1	8.1 km/h	5.0 mph
Forward 2	15.2 km/h	9.4 mph
Forward 3	23.2 km/h	14.4 mph
Forward 4	35.5 km/h	22.1 mph
Forward 5	49.4 km/h	30.7 mph
Forward 6	58.4 km/h	36.3 mph
Reverse 1	8.9 km/h	5.5 mph

Sound Levels		
Interior Cab	69±2 dB(A)	

- The declared dynamic operator sound pressure level is 69±2 dB(A) when ISO 6396:2008 is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the maximum cooling fan's speed. The sound level may vary at different cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- Hearing protection may be needed when operating with an open operator station and cab or when not properly maintained or doors/windows open for extended periods or in noisy environments.

Operating Weights		
Front Axle – Empty	14 050 kg	30,974 lb
Center Axle – Empty	4646 kg	10,242 lb
Rear Axle – Empty	4426 kg	9,757 lb
Total – Empty	23 122 kg	50,975 lb
Front Axle – Rated Load	2500 kg	5,511 lb
Center Axle – Rated Load	10 750 kg	23,699 lb
Rear Axle – Rated Load	10 750 kg	23,699 lb
Total – Rated Load	24 000 kg	52,910 lb
Front Axle – Loaded	16 549 kg	36,484 lb
Center Axle – Loaded	15 397 kg	33,944 lb
Rear Axle – Loaded	15 176 kg	33,457 lb
Total – Loaded	47 122 kg	103,886 lb

Body Plate

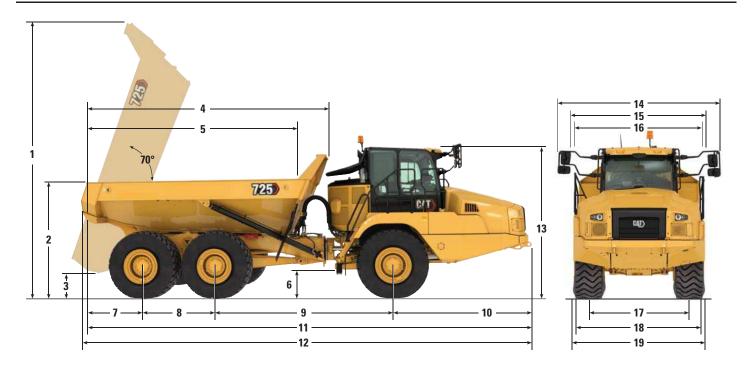
High strength Brinell HB450 wear resistant steel

Body Plate Thickness		
Front Plate	7 mm	0.28 in
Base Plate	13 mm	0.51 in
Side Plates	11 mm	0.43 in

Service Refill Capacities		
Fuel Tank	412.0 L	91.0 gal
Cooling System	83.0 L	18.0 gal
Steering/Hoist Hydraulic System	110.0 L	24.0 gal
Engine Crankcase	38.0 L	8.0 gal
Transmission	47.0 L	10.0 gal
OTG	24.0 L	5.0 gal
Final Drives (each)	7.5 L	1.6 gal
Axles (each)	26/28/26 L	6/8/08 gal
Diesel Exhaust Fluid (DEF) Tank	20.0 L	4.0 gal
Body Hoist		
Raise Time	10 Seconds	
Lower Time	8 Seconds	
Standards		
Brakes	ISO 3450:20	11
Cab/FOPS	ISO 3449:20	05 Level II
Cab/ROPS	ISO 3471:20	08
Steering	ISO 5010:20	19

Dimensions

All dimensions are approximate.



		mm	ft/in
1	Body Height Fully Tipped	6468	21'3"
2	Load Over Height	2916	9'5"
3	Ground Clearance – Body Fully Tipped	563	1'10"
4	Body Length	5783	19'0"
5	Body Length Inside	5411	17'9"
6	Ground Clearance	545	1'9"
7	Rear Axle Center to Body Rear	1556	5'1"
8	Mid Axle to Rear Axle Center	1700	5'7"
9	Mid Axle to Front Axle (centers)	3979	13'1"
10	Front Axle Center to Machine Front	3210	10'6"
11	Overall Length	10 445	34'3"
12	Overall Length with Tailgate	10 593	34'8"
13	Height Transport Position	3508	11'6"
14	Overall Width	3676	12'1"
15	Width Over Tailgate/Width Including Tailgate	2984	9'10"
16	Body Width	2902	9'6"
17	Track Width	2275	7'6"
18	Width Over Tire	2877	9'5"
19	Width Over Fenders	2950	9'8"

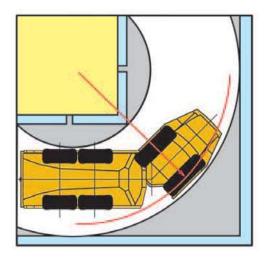
Turning Circle

Dimensions are for machines equipped with 23.5R25 tires.

Turning Dimensions		
Steer Angle – Left/Right	45°	
SAE Turning Radius	7470 mm	294 in
Clearance Radius	8075 mm	318 in
Inside Radius	3879 mm	153 in
Aisle Width	5332 mm	210 in

Steering

Lock to Lock 4.75 seconds at 60 rpm



Optimal Loader/Truck Pass Matching

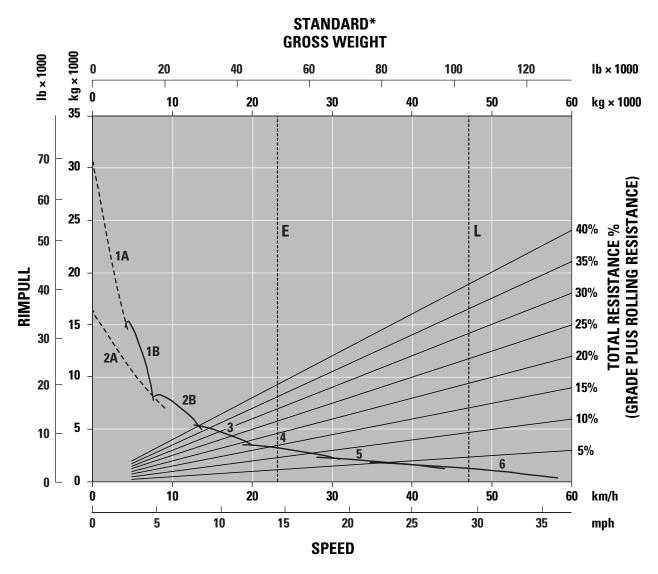
Hydraulic Excavators	349F/349F XE	336F/336F XE
Passes	4-5	5-6

Wheel Loaders	972M/972M XE	966M/966M XE	962M	950M
Passes	3_4	Δ	4-5	5

An optimum system match gives you a major productivity advantage. The 725 is an excellent match for the Cat 349F and 336F Hydraulic Excavators and Cat 972M, 966M, 962M, and 950M Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.

Gradeability/Speed/Rimpull

To determine performance, read from Standard Gross Weight down to Total Resistance %. Total Resistance equals actual % grade plus 1% for each 10 kg/metric ton (20 lb/ton) of Rolling Resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to Speed. Usable Rimpull depends on traction available.



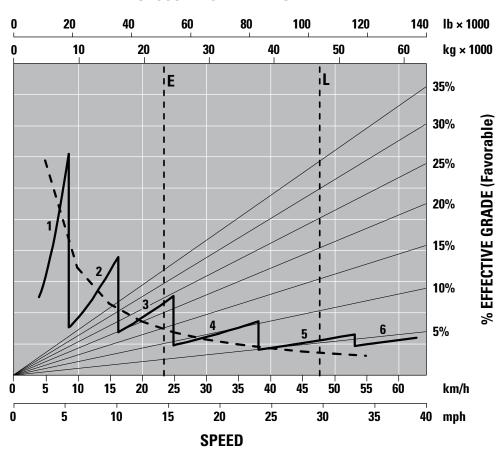
- 1A 1st Gear (Converter Drive)
- 1B 1st Gear (Direct Drive)
- 2A 2nd Gear (Converter Drive)
- 2B 2nd Gear (Direct Drive)
- 3 3rd Gear
- 4 4th Gear
- 5 5th Gear
- 6 6th Gear

- E Empty 23 040 kg (50,795 lb)
- L Loaded 47 040 kg (103,707 lb)
- * at sea level

Retarding Performance

To determine performance, read from Gross Weight down to % Effective Grade. Effective Grade equals actual % favorable grade plus 1% for each 10 kg/metric ton (20 lb/ton) of Rolling Resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to Maximum Speed. Retarding effect on these curves represents full application of the retarder.

GROSS MACHINE WEIGHT



- 1 1st Gear
- $2-2nd\ Gear$
- 3 3rd Gear
- 4 4th Gear
- 5 5th Gear
- 6 6th Gear

- E Empty 23 040 kg (50,795 lb)
- L Loaded 47 040 kg (103,707 lb)

725 Articulated Truck Standard & Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Air conditioning with R134A refrigerant	✓	
Adjustable air vents	✓	
Combined gear selection and hoist control lever	✓	
Glass windows: front, laminated and tinted; sides and rear, toughened and tinted	✓	
Heater and defroster with four-speed fan	✓	
Infrared glass – high ambient cab		✓
Liquid Crystal Display (LCD): alert indicator, selected gear and direction, speed or auto shift, Operation and Maintenance Manual (OMM), primary steering failure (warning), seat belt warning, secondary steering failure, Diesel Particulate Filter (DPF) regeneration filter, Machine Security System (MSS), secondary steering energy source engaged,	✓	
hour meter, retarder active		
Mirrors: extensive arrangement for improved visibility	V	
Mirrors, heated rearview motorized		√
Machine operation monitoring system: action lamp, engine oil pressure, primary steering system, left and right turn signal, high beam, coolant temperature, tachometer, parking brake, fuel level, transmission oil temperature, brake system, transmission hold, hoist control, hydraulic system, charging system, transmission fault, traction control system, check engine lamp Radio, Bluetooth stereo system Seats: operator – fully adjustable, air	✓ ✓	√
suspension, retractable belt; trainer – padded with retractable lap belt		
Seat, heated/cooled		✓
Seat belt, four-point		✓
Secondary steering – electro hydraulic	✓	
Storage: cup holder, flask receptacle (under the secondary seat), under seat storage, door pocket, behind seat storage, coat hook	✓	
Sun visor	✓	
Tilt and telescopic steering wheel	\checkmark	
Touchscreen display incorporating the rearview camera video feed	√	
Window blinds		✓
Windows (tinted) opening both sides	✓	
Windshield wiper and washer, two speed, intermittent (front)	√	
Single-speed rear wiper		√

	Standard	Optional
TECHNOLOGY		
Machine Security System (MSS)		✓
Cat Production Measurement payload		√
monitoring system		
PLE641 (cellular) dependent on location and	\checkmark	
licensing agreement		
Cat Detect with Stability Assist	√	
PLE631 (satellite)		✓
ELECTRICAL AND LIGHTING		
Batteries (two) maintenance free	√	
Cold weather start attachment		√
Engine block heater		√
Ether start		✓
Electrical system: 24-volt, 5A 24- to 12-volt converter	✓	
Flashing LED beacon		✓
Horn	✓	
Lighting systems: cab interior, two head	✓	
lamps, two width marker, two reversing, work		
light/cab access light, two stop/tail lights, front		
and rear direction indicators		
Main disconnect switch	<u> </u>	
Remote starting receptacle (cables not included)	√	
Roof mounted High Intensity Discharge (HID) work lights		V
POWER TRAIN		
Auto shift six-speed forward and single	√	
speed reverse transmission		
Cat C9.3 engine	✓	
CX31R transmission	√	
Cat Clean Emission Module (CEM)	√	
and exhaust aftertreatment package		
Differentials: standard with automatic	✓	
clutched inter- and cross-axle differential locks		
Dual circuit oil immersed, enclosed	✓	
brakes – all wheels		
Hydraulic retarder	√	
Three axle, six-wheel drive	√	
SAFETY		
Reverse alarm	✓	
Rearview camera	✓	
ROPS/FOPS cab	√	
GUARDS		
Axle	✓	
Crankcase	√	
Front dump body spill guard, integral part of fabricated body	✓	
Radiator	✓	
Rear window	✓	

725 Articulated Truck Standard & Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
OTHER STANDARD AND OPTIONAL EQUIPMENT		
Auto lube installation for automatic greasing of bearings		✓
Bare chassis (no body) standard wheel base		✓
Body liners		✓
Cold weather coolant -51°C (-60°F)		✓
Exhaust heated body		✓
Fast fuel fill		✓
Fuel additive, anti-waxing		✓

	Standard	Optional
OTHER STANDARD AND OPTIONAL EQUIPMENT (CONTINUED)		
Mud flaps: wheel arch and body mounted with transportation tiebacks	✓	
Scissor tailgate		✓
S·O·S SM sampling valves	✓	
Sound suppression (standard in Europe)	✓	
Sound suppression (optional outside Europe)		✓
Tires, six 23.5R25	✓	
Vandalism protection: lockable caps	√	
Wheel chocks	•	✓



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com.

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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