

Location: Skanska
Riverside CA

**TRUCK AND EQUIPMENT CONSULTING LLC - TUNNELING EXCAVATOR CHECKLIST
(STANDARD)**

Date 6/29/2022
Inspector Initials T.T.

(Basic Information)	
(Manufacturer)	Caterpillar
(Model Number)	328D LCR ZTAL
(Serial Number)	CAT0328DVMKR00261
(Year of Manufacturing)	2014
(Hour Meter Reading)	4370 Hrs
(Transmission)	Hydrostatic
(Engine Model)	Tier III Caterpillar C7 ACERT 204Hp 7.2L I6 T.D.
(Hydraulic System/Relief)	5221 psi (max)
(Weight)	95,901 lbs

- A (Near to Brand New or Excellent Condition)
- B (A little Wear and Good Condition)
- C (Fair Workable Condition for Hour Meter Reading)
- D (Workable but minor repair is required)
- E (Workable but major repair is required)

Specification and Dimensions	
Serial Plate/Frame Inscription	CAT0328DVMKR00261
Cabin Canopy (Circle)	Tunneling Cabin w/Emergency Exit, Fire Suppressn
EPA Certificate / Permits Posted	Open Front+Side Cab panels EROPS / EFOPS
Window Venting / Air Conditioning	Climate Control A/C (working)
Fluid Capacities	Eng Oil =8.5 gal/Coolant =8.5 gal/Hyd Tank =40 gal
Boom	ZTAL4.650 Short Tunneling Boom
Shoe size/No. of Shoes	24 in shoes / 49 shoes per side
Track/Carrier Rollers	Track Rollers =9/Carrier Rollers =2
Fuel Cap/Hydraulic System	106 gal / 76.6 gal
Attachment	2 Tip Ripper Tunneling Bucket +other attachments
Other	10 work mode Tool Control, Fogmaker Fire Suppr
	Hammer+Shear tunneling hydraulics, Rear camera
	Dyntest Temp+Back press alarm,Cold weather pkge.
	Backfill Blade, Front+Side Cab Guard Grilles

	(Check List)	A	B	C	D	E	(Remarks)
	(General Appearance-Rear)		X				Good appearance rear counterweight, rear panels+gaps No damage
	(General Appearance-Right)		X				Good appearance Right Side panels+gaps,track frame,platforms No damage
	(General Appearance-Left)		X				Good appearance Left Side panels+gaps,track frame,platforms No damage
	(General Appearance-Upper)		X				Cab roof and upper panels Good appearance No damage
	(Major / Minor Surface Rust)		X				No rust issues
	(Body Panels / Covers - Rust Damage / Cancer)		X				No rust damage, No panel damage No rust cancer
	(Visible Weld Repairs / Stress Cracks)		X				No patches, No cracks, No welds/epoxy repairs seen
	(Glass Condition)		X				Top + Rear Glass panels Good appearance No front or side glass
	(Chassis / Undercarriage Damage)		X				Good underside panels+gaps Clean circle gear No stains Dry appearance
OPERATOR'S COCKPIT	(Operator Cabin)		X				Good cabin appearance Solid floors Good panels Minimal cosmetics
	(Operator Controls and Switches)		X				Complete Good appearance and function
	(Hour Meter Activity)		X				Working
	(Other Gauge Activity)		X				Working Driver Info Display lens some surface wear No error codes
	(Door / Canopy Latches)		X				Good function
	(Safety - Horn / First Aid Kit)		X				Working
	(Operator Seat Condition)		X				Seat Good appearance
	(Safety - Seat Belts / Fire Extinguisher)		X				Yes / Fogmaker Fire Suppression System Active
ENGINE	(Oil Color / Fluid Appearance / Particulates or Granuales)		X				Good appearance No signs cross contamination No Blow By seen
	(Noise Upon Startup / Noise Upon Idle / Noise Upon Shut Down)		X				Easy and quick start up Smooth Idle No unusual noises at shut down
	(Engine Exhaust Color - White / Blue / Black / Clear)		X				Clear and Clear at operating temps
	(Oil Leaks)		X				None seen No dried stains No seepages seen Clean engine surfaces
	(Engine Smoke Upon Startup / Upon Idle / Upon Shut Down)		X				No smoke issues Smooth idle No unusual noises
	(Coolant Color / Fluid Appearance)		X				Good appearance
	(Water Pump Noises / Damp Hoses / Coolant Leaks)		X				No cooling system noises or leaks
	(Coolant Leaks from Radiator)		X				No leaks or dried seepages seen
	(Overall Engine Appearance Clean / Wet / Dry)		X				Clean and dry engine appearance
HYDRAULICS OVERALL	(Overall appearance of Hydraulic lines/fittings - worn/cracked)		X				Hydraulic pistons clean No pitting No discoloration
	(Hydraulic Pump Sounds / Noises)		X				No unusual pump noises during operations
	Wet or Damp hydraulic lines and fittings / fluid leaks)		X				Hydraulic pistons clean No dried seepages No dampness or stains
	(External Controls / Levers Condition)		X				Good appearance and function
	(Hydraulics Service Records / Maintenance History)						Filters marked 4067 Hrs @ 2/13/2019

ELECTRICAL	(Lighting System Condition)		X				Working	
	(Reverse Alarm / Backup Signal)		X				Working	
	(Battery Condition)		X				Good appearance	
	(Other Electric Device Condition)		X				Electrics Good function	
SWING TABLE	Swivel Bearing Condition		X				Smooth and Quiet 360 Rotation both directions	
	Swivel Motor Condition		X				Quiet Good performance	
	Swivel Joint Condition		X				Good appearance	
	(Other Remarks)		X				Swing table bolts quiet Good appearance	
TRANSMISSION	(Clutch Noise / Function)		X				No banging noises or vibrations during travel	
	(Transmission Noise / Function)		X				Good forward and reverse	
	(Shift Lever Condition & Function)		X				Good shifter appearance and response	
	(Other Remarks)		X				Good transmission function	
HYDRAULICS CYLINDERS	BOOM	(Oil Leak from Cylinder)	X				Pistons good appearance No pitting No discoloration	
		(Mounting Pin Condition)	X				Clean Good appearance No cracking No dried seepage	
	DIPPER	(Oil Leak from Cylinder)	X				Pistons good appearance No pitting No discoloration	
		(Mounting Pin Condition)	X				Clean Good appearance No cracking No dried seepage	
	BUCKET	(Oil Leak from Cylinder)	X				Pistons good appearance No pitting No discoloration	
		(Mounting Pin Condition)	X				Clean Good appearance No cracking No dried seepage	
(Other Remarks)		X				Overall Hydraulics Good appearance of hoses, fittings		
CRAWLER & WHEEL ASSEMBLIES	(Transom / Boom / Arm Function / Noise)		X				No unusual noises or vibrations	
	(Slack in Pins / Loose Pins / Soft Bushings)		X	X			Some track noise from undercarriage during travel	
	LEFT SIDE Link Bush / Drive Sprocket / Shoe Condition		X	X			Some surface corrosion seen, surface wear and travel noise B-/C+	
	RIGHT SIDE Link Bush / Drive Sprocket / Shoe Condition		X	X			Some surface corrosion seen, surface wear and travel noise B-/C+	
	LEFT SIDE Upper & Lower Roller / Front Idler Condition		X	X			Some surface corrosion seen, surface wear and travel noise B-/C+	
	RIGHT SIDE Upper & Lower Roller / Front Idler Condition		X	X			Some surface corrosion seen, surface wear and travel noise B-/C+	
	(Roller Condition)	(Front)	Right Front *(A)to(E)	X	X			B-/C+ Some surface wear
			Left Front *(A)to(E)	X	X			B-/C+ Some surface wear
		(Rear)	Right Rear	X	X			B-/C+ Some surface wear
			Left Rear	X	X			B-/C+ Some surface wear
(Track Condition)		X				Good appearance of grousers No damage to shoes or tracks seen		
ATTACHMENT	(Ripper Ends)		X				Good appearance	
	(Ripper Bottom / Reinforced / Plate Condition)		X				Good	
	(Ripper Link Condition)		X				Good appearance	
	(Side Cutter Condition)		X				Good	
	(Rotation pins condition)		X				Good condition	
	Other Comments		X					
BRAKES	(Foot Brake)		X				Good brake function	
	(Inching Brake)		X				Good	
	(Parking Brake)		X				Good function	
FRAME APPEARANCE	Front		X				Good appearance	
	Rear		X				Good	
	Center		X				Good appearance	
	Spring Condition		X				Good	
OPERATION	FORWARD & REVERSE		X				Good Forward and Reverse	
	SWING TABLE ROTATION		X				Good 360 rotation both directions	
	BOOM LIFT / ANGLE / TILT		X				Good Lift / Tilt / Angle	
	OVERALL FUNCTIONALITY		X				Good Functionality and Performance	
RATINGS	OVERALL VISUAL INSPECTION		X				Good panels+panel gaps Dry+clean engine+hydraulic appearance No rust	
	COMMENTS		X				Hydraulics Good function, Good Engine Idle Good Hydrostatic travel,	
	OVERALL PERFORMANCE INSPECTION		X	X			Good function steering,brakes,controls Some surface wear undercarriage	
	COMMENTS		X				All systems show good travel good functionality and good performance	

OVERALL EXTERIOR RATING: B QUALITY: B
 OPERATORS STATION RATING: B SAFETY: B
 OVERALL PERFORMANCE: B/B- FUNCTIONALITY: B
OVERALL GRADE EVALUATION: B
 FLUID SAMPLE REQUEST (Y/N) N ENG OIL N HYDRAULIC N

Dimensions: (transport reff only)

Length: 32 Ft 3 in
 Width: 6 Ft 3 in
 Height: 11 Ft 1 in
 Weight: 95,901 lbs

*A:Remaining Ratio 90% or more
 *B:Remaining Ratio 70% or more
 *C:Remaining Ratio 50% or more
 *D:Remaining Ratio 20% or more
 *E:Remaining Ratio 20% or less