

Location: Calex  
Santa Clara, CA

**TRUCK AND EQUIPMENT CONSULTING LLC -ENCLOSED CAB CRAWLER VERTICAL  
DRILL CHECKLIST (STANDARD)**

Date 7/12/2022  
Inspector Initials L.W.

(Basic Information)	
(Manufacturer)	Casagrande
(Model Number)	B160XP Hydraulic Piling Rig
(Serial Number)	B160US0100
(Year of Manufacturing)	2016
(Engine Hours Meter Reading)	1060 Hrs
(Drill Type)	Rotary + CFA (continuous flight) piling
(Engine Model)	TIER IV Cummins QSB6.7 6.7L 225Hp I6 TurboD
(Hydraulic System Relief)	5076 psi
(Hydraulic Tank Capacity)	Hydraulic =87 gal / Fuel =74 gal
(Emissions Urea Tank)	15 gal capacity

Specification and Dimensions	
Serial Plate/Frame Inscription	B160US0100
Operator Position	Enclosed Cab w/A/C + Heat (working)
EPA Certificate / Permits Posted	EROPS / EFOPS
Depth	50 Meter Stroke (w/rotary head)
Extension Rods	4 Section Round Locking Kelly Bars
Head	H16 Rotary Head
Max Drill Speed	Drill =32 RPM / Max Discharge Speed =130 RPM
Micropiling Depth	Max Depth =52 Ft / Main Winch = 35,969 lbs
Track Length/Width	Track Length =177 in / 24 in Width Triple Grouser
Operating Weight	90,389 lbs (Std Micropiling Config w/Kelly bars)
Origin	Italy

- 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)

	(Check List)						(Remarks)
		A	B	C	D	E	
GENERAL APPEARANCE	(General Appearance-Front)	X	X				Good appearance front panels, some surface rust cosmetics No damage
	(General Appearance-Rear)		X	X			Some scrapes and surface rust lower counterweight, panel cosmetics
	(General Appearance-Right )		X				Good side panels+gap fitment
	(General Appearance-Left )		X				Good side panels+gap fitment
	(General Appearance-Upper )		X				Cab roof, upper surfaces and upper panels Good appearance No damage
	(Major / Minor Surface Rust)		X	X			Areas of surface rust cosmetics on unpainted unplated metals No damage
	(Body Panels / Covers - Rust Damage / Cancer)		X				No rust damage no cancer
	(Visible Weld Repairs / Stress Cracks)		X				No weld repairs seen No cracks or damage to structure or crossmembers
	(Glass Condition)		X				Good Glass
	(Chassis / Undercarriage Damage)		X				Good underside panels + gaps No damage
OPERATOR'S COCKPIT	(Operator Cabin)		X				Good cabin appearance Solid floors Good panels No wear issues seen
	(Operator Controls and Switches)		X				Complete Good appearance and function switchgear and controls
	(Hour Meter Activity)		X				Working
	(Other Gauge Activity)		X				Good Driver Info display function No Service Codes
	(Door / Canopy Latches)		X				Good function all latches and doors
	(Safety - Horn / First Aid Kit)		X				Working
	(Operator Seat Condition)		X				Good appearance No damage
	(Safety - Seat Belts / Fire Extinguisher)		X				Yes
ENGINE	(Oil Color / Fluid Appearance / Particulates or Granuales)		X				Good appearance No signs of cross contamination No Oil Blow By
	(Noise Upon Startup / Noise Upon Idle / Noise Upon Shut Down)		X				Easy and quick start up Smooth Idle
	(Engine Exhaust Color - White / Blue / Black / Clear)		X				Clear Stays Clear at Operating Temps
	(Oil Leaks )		X				No active Engine oil leaks seen
	(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 of coolant No signs of cross contamination
	(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
	(Overall appearance of Hydraulic lines/fittings - worn/cracked)		X				No frayed or damaged hoses or fitting seen
HYDRAULICS OVERALL	(Hydraulic Pump Sounds / Noises)		X				No unusual pump noises during operations
	Wet or Damp hydraulic lines and fittings / fluid leaks)		X				No dried seepages No dampness or discoloration on hydraulics
	(External Controls / Levers Condition)		X				Good appearance and function
	(Hydraulics Service Records / Maintenance History)						not marked or provided

ELECTRICAL	(Lighting System Condition)								N/A	
	(Reverse Alarm / Backup Signal)								N/A	
	(Battery Condition)			X					Good appearance	
	(Other Electric Device Condition)			X					Electrics Good function Display sharp and clear No Service Codes	
SWING TABLE	Swivel Bearing Condition			X					Smooth and Quiet 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 noises or vibrations during travel	
	(Transmission Noise / Function)			X					Good forward and reverse No hesitation or unusual noises	
	(Shift Lever Condition & Function)			X					Good response	
	( Other Remarks)			X					Good travel function	
HYDRAULICS CYLINDERS	BOOM	(Oil Leak from Cylinder)		X					Pistons good appearance No pitting No discoloration	
		(Mounting Pin Condition)		X					Good appearance No wear issues seen	
	DRILL	(Oil Leak from Cylinder)		X					Pistons good appearance No pitting No discoloration	
		(Mounting Pin Condition)		X					Good appearance No wear issues seen	
	OTHER	(Oil Leak from Cylinder)		X					Pistons good appearance No pitting No discoloration	
		(Mounting Pin Condition)		X					Good appearance No wear issues seen	
(Other Remarks)			X					Good Function of Hydraulic System		
CRAWLER & WHEEL ASSEMBLIES	(Transom / Boom / Arm Function / Noise )			X					No unusual noises or vibrations Smooth and quiet	
	(Slack in Pins / Loose Pins / Soft Bushings)			X					No excess or loose play No travel noises	
	LEFT SIDE Link Bush / Drive Sprocket / Shoe Condition			X	X				Some surface rust and surface wear seen on sprockets No curling seen	
	RIGHT SIDE Link Bush / Drive Sprocket / Shoe Condition			X	X				Some surface rust and surface wear seen on sprockets No curling seen	
	LEFT SIDE Upper & Lower Roller / Front Idler Condition			X	X				Some surface rust and surface wear seen on idler edges	
	RIGHT SIDE Upper & Lower Roller / Front Idler Condition			X	X				Some surface rust and surface wear seen on idler edges	
	(Roller Condition)	(Front)	Right Front *(A)to(E)		X	X				Rollers =C Surface rust+wear
			Left Front *(A)to(E)		X	X				Rollers =C Surface rust+wear
		(Rear)	Right Rear		X	X				Rollers =C Surface rust+wear
			Left Rear		X	X				Rollers =C Surface rust+wear
(Track Condition)					X			Noisy travel from tracks some wear+tear seen on undercarriage		
DRILL COMPONENTS	(Drill Head)			X					Good appearance	
	(Drill Mast)			X					Good appearance No damage Boom side panels Good appearance	
	(Rotation)			X					Good rotation	
	(Drill Elevation)			X					Working	
	(Lift and Drop)			X					Good Lift + Drop Function	
	(Chains)			X					Chains Good appearance	
BRAKES	(Foot Brake)			X					Good brake function	
	(Inching Brake)			X					Good	
	(Parking Brake)			X					Good function	
FRAME APPEARANCE	Front			X					Good chassis +frame appearance Good crossmembers No rust or damage	
	Rear			X					Good chassis +frame appearance Good crossmembers No rust or damage	
	Center			X					Good chassis +frame appearance Good crossmembers No rust or damage	
	Spring Condition			X					Good appearance	
OPERATION	FORWARD & REVERSE			X					Good Forward and Reverse travel response from engine + transmission	
	SWING TABLE ROTATION			X					Smooth and quiet Good rotation both directions	
	BOOM LIFT / ANGLE / TILT			X					Good Lift / Tilt / Angle performance	
	OVERALL FUNCTIONALITY			X					Good Functionality and Performance	
RATINGS	OVERALL VISUAL INSPECTION			X					Good appearance of hydraulics, chassis, hydraulic components Clean+dry	
	COMMENTS			X	X				Some surface wear to undercarriage componens with travel noise	
	OVERALL PERFORMANCE INSPECTION			X					Good hydraulic performance, good engine, steering, brakes, and controls	
	COMMENTS								No site drilling tested or performed	

OVERALL EXTERIOR RATING:  B/B-      QUALITY:  B-  
 OPERATORS STATION RATING:  B      SAFETY:  B  
 OVERALL PERFORMANCE:  B/Incomplete      FUNCTIONALITY:  B/Incomplete  
**OVERALL GRADE EVALUATION: B / B-**  
 FLUID SAMPLE REQUEST (Y/N)     Eng Oil     Hyd Oil    

**Dimensions: (transport reff only)**

Length: 49 Ft  
 Width: 8 Ft 3 in  
 Height: 11 Ft  
 Weight: 90,389 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