CPS-361 High Pressure Unit

ELEMENT	MODEL
Economic No.	1832758
Series	CPS 361
Hydraulic	4 ½" x 6 3" x 8
Maximum working pressure	15000 psi
Maximum flow rate	14 bpm (no pressure)
Maximum RPM	1800 rpm
Triplex pump (front)	Serva TPB-600 Diameter = 3" Max. Pressure =6,300 psi Maximum pumping speed =7.9bbl/min
Transmission (rear)	Allison 4700 OFS
Engine	340 CV to 2100 rmp-CATERPILLA C-9
Volume counter	Digital and analog
Storage tank	2 x 10 bbl – Stainless steel

Measures	
Large	8 mts
Width	3.5 mts
Height	4.75 mts
Weight	25 tons

4.5” Pump tests performed

Air tightness test			
Start time	End time	Pressure (PSI)	Status
14:00	14:05	500	Ok
14:05	14:10	1000	Ok
14:10	14:15	3000	Ok
14:15	14:20	5000	Ok
14:20	14:25	7000	Ok
14:25	14:30	8000	Ok

Minimum and maximum flow rate (No pressure)				
Speed	RPM	Flow rate (BPM)	Pressure (PSI)	
1	700	0.5	900	1000
1	1800	1.5	3000	3100
2	700	1.1	1200	1300
2	1800	3.2	1700	1800
3	700	1.9	1400	1800
3	1800	5.8	3800	3900
4	700	2.3	1900	2100
4	1800	7.7	2400	2500
5	700	3.6	3200	3300

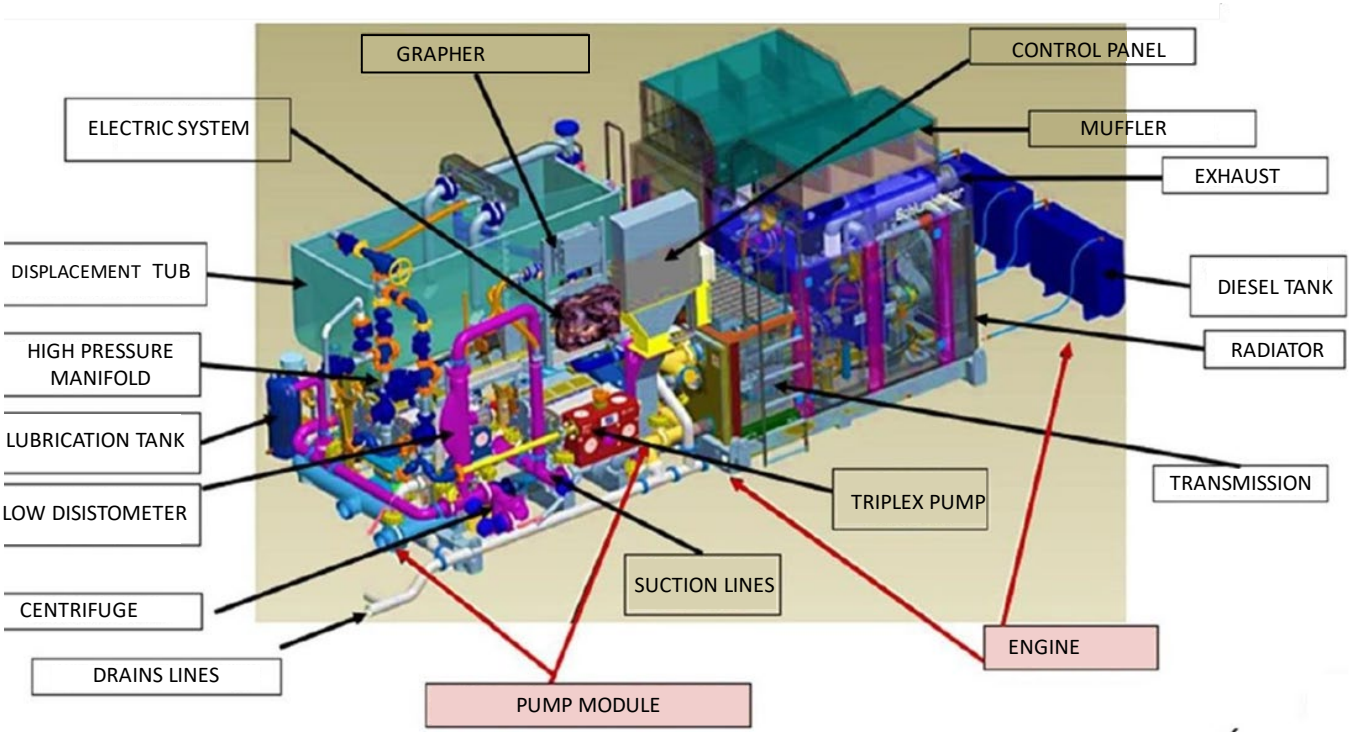
Emergency stop @9000 PSI: Ok

4.5” Pump horsepower test

Start time	End time	Speed	RPM	Flow rate (BPM)	Pressure (PSI)		Power (HP)	
12:10	12:15	1	700	0.5	900	100	5.96	7
12:15	12:20	1	1800	1.5	3000	3100	25.12	25
12:20	12:25	2	700	1.1	1200	1300	18.63	20
12:25	12:30	2	1800	3.2	1700	1800	62.87	66
12:30	12:35	3	700	1.9	1400	1600	49.71	51
12:35	12:40	3	1800	3.5	3800	3900	154.85	157
12:40	12:45	4	700	2.3	1900	2100	35.29	35
12:45	12:50	4	1800	3	2400	2500	217.67	220
12:50	12:55	5	700	3.6	3200	3300	161.67	166
12:55	13:00	5	1800	2.5	3500	3800	125.25	140

3” Pump horsepower test

Start time	End time	Speed	RPM	Flow rate (BPM)	Pressure (PSI)		Power (HP)	
12:10	12:15	1	700	0.2	497	500	5.96	7
12:15	12:20	1	1800	1.0	4500	8000	25.12	25
12:20	12:25	2	700	0.5	308	450	18.63	20
12:25	12:30	2	1800	1.4	3800	3900	62.87	66
12:30	12:35	3	700	0.9	400	450	49.71	51
12:35	12:40	3	1800	3.5	4500	5000	154.85	157
12:40	12:45	4	700	1.2	2000	2000	35.29	35
12:45	12:50	4	1800	2	3000	3100	217.67	220
12:50	12:55	5	700	1.5	2500	2600	161.67	166
12:55	13:00	5	1800	1.8	3200	3300	125.25	140



Air compressor

An air compressor with its own reservoir and a 24-volt battery helps its continuous operation, therefore, it only requires air for starting, since after switching on the equipment is self-sufficient to feed on air and current to continue working during the required time for operations.

Diesel tanks

Two diesel reservoir tanks each one with a 500L capacity, help us maintain the equipment working, for 12 continuous hours, therefore, diesel refueling should be considered prior to prolonged operations on structures without drilling equipment.

Parameter logger

For constant monitoring, our equipment, it has a data recording and acquisition unit (Pressure, flow rate and accumulated during operation). Which has the peculiarity of being remotely monitored within the location (up to 40 meters). Recording everything in graphs of each job done, which can be printed.

Toolbox

Currently we have the necessary and sufficient refurbishment for the maintenance of our equipment for a year and a half, or what is equal to 4 complete services due to wear and tear. As well as we have the special tools necessary for the maintenance and repair of the bombs.