Cementing Units

GENERAL INFORMATION

Year of Construction	2012 & 2013
Dimensions	L : 11,2 m; W : 2,5m; H : 4,1m
Weight/Type	28 Tons / Trailer Mounted
Power System	CAT C15 (540 hp) x 2
	CAT C13 (475 hp) x 2
Transmission	CAT C7 (375 hp)
Transmission	Allison 4.700 OFS Automatic
Pumps	4" Plunger TPH400
	4 1/2" Plunger TPH400
ACM - Mixing System	8 bbl Onboard Mixing Tank
	20 bbl Onboard Displacement Tank
	ACM 4.1 Automatic Mixing System
	Micro Motion F300 Densitometer
	Allen Bradley Computer System
	HEMI Mixer
	Parker Electro-Hydraulic Valves
	Automatic Cement Control Valve
	Automatic Water Flow Control Valve
	Halliburton Nuflo Flow Meter
	Mission Magnum 4x3 Centrifugal Pump
	Serva 6x5 Centrifugal Pump x2

POWER SYSTEMS

Pump Engine Unit 1	CAT C13
	475 hp@2.100 rpm
	Oilfield Service Configuration
	Emergency Shut-down
Pump Engine Unit 2	CAT C15
	540 hp@2.100 rpm
	Oilfield Service Configuration
	Emergency Shut-down
Auxiliary Engine	CAT C7
	375 hp@2.200 rpm
	Powers Closed Loop Hydraulic System
	Oilfield Service Configuration
	Emergency Shut-down
Transmissions	Allison 4700 OFS Automatic Transmission
	Oilfield Service Configuration
	Heavy-duty Drivelines 5 Gear

MAIN PUMP SYSTEMS

Pump Type	Serva TPH 400 Triplex Pump x 2
HP Rating	Maximum 600hp input
Pump Engine Unit 1	2 x CAT C-13 (475 HP)+CAT C7 (375 HP)
Pump Engine Unit 2	2 x CAT C-15 (540 HP)
Stroke Length	8"
4" Plunger Details	Max. Flow : 7,6 bpm
	Max. Pressure : 14.000 psi
4 1/2" Plunger Details	Max. Flow : 9,6 bpm
	Max. Pressure : 11.200 psi

CENTRIFUGAL PUMP SYSTEMS

Pump Type / Model	Mission Magnum 4x3 Centrifugal
	4" Suction - 3" Discharge
	23 bpm Max. Flow Rate
Pump Type / Model	Serva 6x5 Centrifugal x2
	6" Suction - 5" Discharge
	10,4 bpm Max. Flow Rate

WORKING CONDITIONS

--> -20 ˚C - 50 ˚C Weather Conditions
--> 14.000 psi Max. Working Pressure
--> 17,1 bpm Max. Flow Rate
--> 8,33 - 20,8 ppg Max. Density Range
--> 0 - 14,4 bpm Max. Mixing Capacity
--> (+/-) 0,01-0,02 ppg ACM Density Accuracy
--> 2 Hours Non-Stop Operation@Max. Pressure
--> 2 Hours Non-Stop Operation@Max. Flow Rate

OTHER EQUIPMENTS

--> Wireless Operation Monitoring System
--> DAS Operational Parameters and Charts Print Outs
--> 13 3/8" BTC Single&Double Plug Container
--> 9 5/8" BTC Double Plug Container
--> 7 " BTC Double Plug Container
--> 120 bbl Capacity Batch Mixer Tank x 2
--> 270 bbl Capacity Batch Mixer Tank
--> 35 tons Capacity Bulk Cement Silo x 12
--> 60 tons Capacity Bulk Cement Silo x 4
--> Over 60m, 2" Fig 1502 cementing pipelines on each unit
--> Connection Adaptors and Manifold Equipments

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