

TRIPLEX FLUID PUMPER

The Petrotesting WS-481 Skid-Mounted Triplex Fluid Pumper is a high-pressured Well Service Pumper used for performing high-pressure well service treatments. The power unit for the WS-481 is a Detroit Diesel model 8V92TA diesel engine, rated at 480 hp at 2100 rpm.

The power unit drives an MSI model TI-600 triplex pump via an Allison model HT-750-DR transmission and Spicer driveline.

Dextron C4 is typical of the type of transmission oil used in this unit.



TRIPLEX PUMP

Specifications

DIESEL ENGINE

Model	: 8V92TA
Type	: 8 cylinder, Turbocharged
Horsepower	: 480 hp (357.94 kW)
Rated Speed	: 2100 rpm
Displacement	: 736 in ³ (12.1 L)
Compression Ratio:	17:1
Engine Crankcase Ventry System:	Open
Dry Weight	: 2420 lb (1100 kg)
Bore	: 4.84 in (123 mm)
Stroke	: 5.0 in (127 mm)
Width	: 37.6 in (955 mm)
Height	: 49.5 in (1257 mm)
Total Engine Oil Capacity	: 27 qt (26 L)
Engine Coolant Capacity	: 29 qt (27.4 L)

TRANSMISSION

Model:	HT750
Type	: Torque Converter & Planetary Gear
Input Speed Maximum	: 2400 rpm
Input Torque Maximum	: 1380 ft-lb
Input Power Maximum	: 445 hp (332 kW)
Rotation	
Input	: CW
Output	: CW
Gear Ratio	
First	: 7.97:1
Second	: 3.19:1
Third	: 2.02:1
Fourth	: 1.38:1
Fifth	: 1.00:1
Reverse	: Blocked
Oil System Type: Approved Type C-4 Trans. Fluid	
Sump Capacity	: 10.745 gal (40.7 L)
Oil Pressure (Converter Out)	: 30 psi (206 kPa)
Oil Pressure (Converter Stalled):	140-175 psi
	(965 kPa- 1206 kPa)
Dry Weight	: 940 lb (426.38 kg)