

# Drumheller 10-14 K300 Compressor Unit K300

## Caterpillar G3512TALE/AFRC / Frick TDSH283S @ 90 psigd

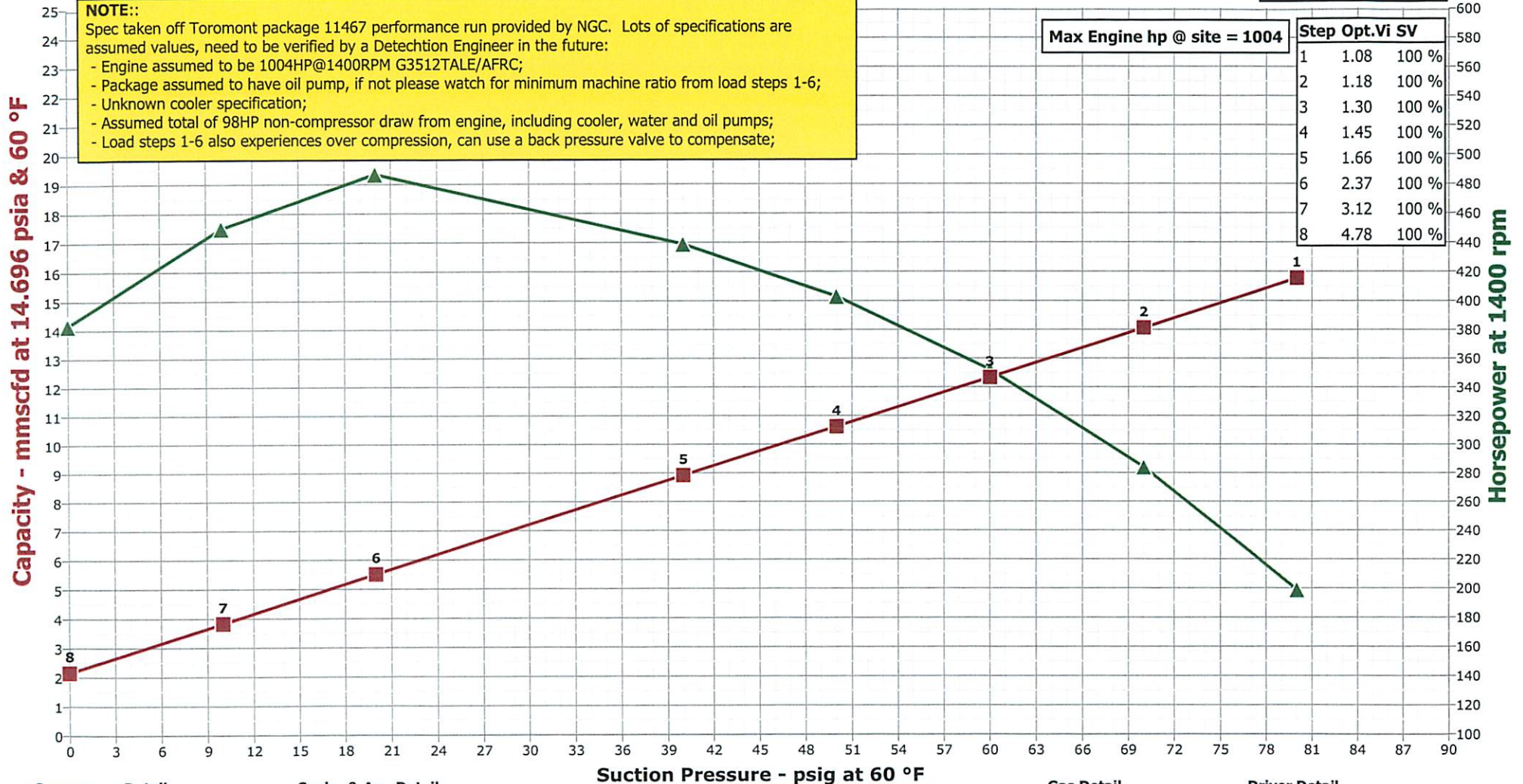
10-14-27-20-W4M

Elevation = 2782.15 ft

**NOTE::**  
Spec taken off Toromont package 11467 performance run provided by NGC. Lots of specifications are assumed values, need to be verified by a Detection Engineer in the future:  
 - Engine assumed to be 1004HP@1400RPM G3512TALE/AFRC;  
 - Package assumed to have oil pump, if not please watch for minimum machine ratio from load steps 1-6;  
 - Unknown cooler specification;  
 - Assumed total of 98HP non-compressor draw from engine, including cooler, water and oil pumps;  
 - Load steps 1-6 also experiences over compression, can use a back pressure valve to compensate;

Max Engine hp @ site = 1004

Step	Opt.	Vi	SV
1	1.08	100 %	
2	1.18	100 %	
3	1.30	100 %	
4	1.45	100 %	
5	1.66	100 %	
6	2.37	100 %	
7	3.12	100 %	
8	4.78	100 %	



**Compressor Detail**  
 Manufacturer = Frick  
 Model = TDSH283S  
 L/D Ratio = 1.35  
 Rated rpm = 1400  
 Max Discharge Pressure = 350 psig

**Cooler & Aux Detail**  
 Manufacturer = Unknown  
 Model = Unknown  
 Fan, Water Pump & Aux hp = 95

Suction Pressure - psig at 60 °F

■ CAPACITY ▲ POWER

**Gas Detail**  
 K-Value = 1.31  
 Specific Gravity = 0.57

**Oil Detail**  
 Pump = Yes  
 Density = 52  
 Specific Heat = 0.48

**Driver Detail**  
 Manufacturer = Caterpillar  
 Model = G3512TALE/AFRC  
 Type = Turbo  
 Compression Ratio = 8  
 Rated rpm = 1400  
 Max hp @ Sea Level = 1004  
 Gear Ratio = 2.57 : 1