



Bull Moose Capital
 1111 - 11 Ave SW Calgary
 tswanson@bullmoosecapital.ca
 Run By: Terry Swanson



CiP# 3.1.3.10	25/07/2008 DB	Customer Contact	
Run Date	21/07/2014	Customer Company	
Job/Run Ref No		Project Description	
Customer Ref No		Special Comment	
Configuration	6"x4"x3"	Engine	
Frame Model	PXT2	Site Rated Power (bhp)	99.0
Frame Speed (RPM)	1800	Cooler Pack Fan Power (bhp)	4.0
Frame Stroke (inch)	3.000	Frame Friction Power (bhp)	3.0
Job Site Elevation (feet)	2500	Available Power (bhp)	92.0
Barometric Pressure (psia)	13.400	Compression Power (bhp)	81.7
Ambient Temperature (°F)	90.0	Total Required Power (bhp)	88.7
Gas Molecular Weight	18.831	Gas Spec Heat, Cp (BTU/lb-°F)	0.526
Gas Specific Gravity	0.650	Gas Spec Heat Ratio, Cp/Cv	1.251
	Stg #1	Stg #2	Stg #3
Skid Inlet Pressure (psig)	30.0		
Skid Inlet Pressure Drop (psi)	3.0		
Inlet Compressibility	0.9939	0.9763	0.9263
Inlet Pressure (psig)	27.0	139.3	433.8
Inlet Temperature (°F)	110.0	110.0	110.0
Dsch Pressure (psig)	139.3	433.8	1100.0
Dsch Pressure Drop (psi)	0.0	0.0	0.0
Skid Dsch Pressure (psig)			1100.0
Dsch Compressibility	0.9919	0.9694	0.9079
Dsch Temp, Actual (°F)	294.6	256.3	235.0
Dsch Temp, Adiabatic (°F)	284.0	246.9	224.3
Compression Ratio	3.78	2.93	2.49
Displacement (cfm)	173.6	36.2	22.1
Capacity (MMscfd)	0.388	0.388	0.388
Capacity (scfm)	269.2	269.1	269.2
Capacity (icfm)	106.7	27.7	9.0
Cooler Heat Load (MBH)	77.9	61.8	52.8
Compression (bhp)	33.0	25.7	23.0
	Cyl #1	Cyl #2	Cyl #3
	Thr #1	Thr #2	Thr #2
	Stg #1	Stg #2	Stg #3
Design	DA	SCE	SHE
Bore (inch)	6.000	4.000	3.000
Cylinder Action	DA	SCE	SHE
RDP / MAWP (psig)	500 / 500	1250 / 1250	1500 / 1500
HE / CE Base Clearance (%)	18.1 / 18.8	0.0 / 18.3	16.2 / 0.0
HE Added Clear via VVCP (%)	0	0	33.20
VVCP Travel (inch)	0.000	0	0
CE Added Clear via Spacers (%)	0	0	0
Number of Spacers Added	0	0	0
HE / CE Volumetric Efficiency (%)	58.5 / 57.1	na / 69.4	36.5 / na
Gas Rod Load, Tension (lbs)	3,196 (43%)	1,179 (16%)	0
Gas Rod Load, Comprsn (lbs)	3,391 (40%)	0	7,252 (85%)
Rod Load Differential	94.2%	16.3%	na

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6. Any amount of H2S requires approval by CiP Compressors before order acceptance.



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CiP# 3.1.3.10	25/07/2008 DB	Customer Contact	
Run Date	21/07/2014	Customer Company	Regent Power and Compression
Job/Run Ref No		Project Description	Bull Moose Capital Unit 05-430
Customer Ref No		Special Comment	
Configuration	6"x4"x3"	Engine	
Frame Model	PXT2	Site Rated Power (bhp)	99.0
Frame Speed (RPM)	1800	Cooler Pack Fan Power (bhp)	4.0
Frame Stroke (inch)	3.000	Frame Friction Power (bhp)	3.0
Job Site Elevation (feet)	2500	Available Power (bhp)	92.0
Barometric Pressure (psia)	13.400	Compression Power (bhp)	89.9
Ambient Temperature (°F)	90.0	Total Required Power (bhp)	96.9
Gas Molecular Weight	18.831	Gas Spec Heat, Cp (BTU/lb-°F)	0.526
Gas Specific Gravity	0.650	Gas Spec Heat Ratio, Cp/Cv	1.251
	Stg #1	Stg #2	Stg #3
Skid Inlet Pressure (psig)	40.0		
Skid Inlet Pressure Drop (psi)	3.0		
Inlet Compressibility	0.9924	0.9730	0.9222
Inlet Pressure (psig)	37.0	159.4	456.5
Inlet Temperature (°F)	110.0	110.0	110.0
Dsch Pressure (psig)	159.4	456.5	1100.0
Dsch Pressure Drop (psi)	0.0	0.0	0.0
Skid Dsch Pressure (psig)			1100.0
Dsch Compressibility	0.9900	0.9657	0.9040
Dsch Temp, Actual (°F)	280.1	245.8	228.2
Dsch Temp, Adiabatic (°F)	269.6	236.5	217.5
Compression Ratio	3.43	2.72	2.37
Displacement (cfm)	173.6	36.2	22.1
Capacity (MMscfd)	0.459	0.459	0.459
Capacity (scfm)	318.6	318.5	318.6
Capacity (icfm)	101.1	28.9	10.1
Cooler Heat Load (MBH)	85.0	67.9	59.1
Compression (bhp)	36.2	28.2	25.5
	Cyl #1	Cyl #2	Cyl #3
	Thr #1	Thr #2	Thr #2
	Stg #1	Stg #2	Stg #3
Design	DA	SCE	SHE
Bore (inch)	6.000	4.000	3.000
Cylinder Action	DA	SCE	SHE
RDP / MAWP (psig)	500 / 500	1250 / 1250	1500 / 1500
HE / CE Base Clearance (%)	18.1 / 18.8	0.0 / 18.3	16.2 / 0.0
HE Added Clear via VVCP (%)	8.91	0	33.20
VVCP Travel (inch)	0.440 (11%)	0	0
CE Added Clear via Spacers (%)	0	0	0
Number of Spacers Added	0	0	0
HE / CE Volumetric Efficiency (%)	46.6 / 61.7	na / 72.3	40.9 / na
Gas Rod Load, Tension (lbs)	3,492 (47%)	1,187 (16%)	0
Gas Rod Load, Cmprsn (lbs)	3,717 (44%)	0	7,137 (84%)
Rod Load Differential	93.9%	16.6%	na

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Frame Stroke (inch)	3.000	Frame Friction Power (bhp)	3.0
Job Site Elevation (feet)	2500	Available Power (bhp)	92.0
Barometric Pressure (psia)	13.400	Compression Power (bhp)	90.0
Ambient Temperature (°F)	90.0	Total Required Power (bhp)	97.0
Gas Molecular Weight	18.831	Gas Spec Heat, Cp (BTU/lb-°F)	0.526
Gas Specific Gravity	0.650	Gas Spec Heat Ratio, Cp/Cv	1.251
	Stg #1	Stg #2	Stg #3
Skid Inlet Pressure (psig)	50.0		
Skid Inlet Pressure Drop (psi)	3.0		
Inlet Compressibility	0.9908	0.9718	0.9206
Inlet Pressure (psig)	47.0	167.2	465.3
Inlet Temperature (°F)	110.0	110.0	110.0
Dsch Pressure (psig)	167.2	465.3	1100.0
Dsch Pressure Drop (psi)	0.0	0.0	0.0
Skid Dsch Pressure (psig)			1100.0
Dsch Compressibility	0.9883	0.9643	0.9025
Dsch Temp, Actual (°F)	260.2	242.2	225.6
Dsch Temp, Adiabatic (°F)	249.9	232.9	215.0
Compression Ratio	2.99	2.65	2.33
Displacement (cfm)	173.6	36.2	22.1
Capacity (MMscfd)	0.487	0.487	0.487
Capacity (scfm)	338.0	337.9	338.0
Capacity (icfm)	89.3	29.3	10.5
Cooler Heat Load (MBH)	79.6	70.1	61.3
Compression (bhp)	34.5	29.1	26.4
	Cyl #1	Cyl #2	Cyl #3
Design	Thr #1	Thr #2	Thr #2
Bore (inch)	Stg #1	Stg #2	Stg #3
Cylinder Action	DA	SCE	SHE
RDP / MAWP (psig)	6.000	4.000	3.000
HE / CE Base Clearance (%)	DA	SCE	SHE
HE Added Clear via VVCP (%)	500 / 500	1250 / 1250	1500 / 1500
VVCP Travel (inch)	18.1 / 18.8	0.0 / 18.3	16.2 / 0.0
CE Added Clear via Spacers (%)	26.72	0	33.20
Number of Spacers Added	1.320 (33%)	0	0
HE / CE Volumetric Efficiency (%)	0	0	0
Gas Rod Load, Tension (lbs)	0	0	0
Gas Rod Load, Comprsn (lbs)	27.4 / 67.7	na / 73.2	42.6 / na
Rod Load Differential	3,445 (46%)	1,190 (16%)	0
	3,688 (43%)	0	7,093 (83%)
	93.4%	16.8%	na

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