



# GE Oil & Gas - HSR Compressor Performance Report

Project Name:  
 Customer/End-user: CIOC 9-3-68-4w/6  
 Packager:  
 Site Location:

GE ID#: 141218-094411-GA4  
 Case #: n/a  
 Version: 02.02.00  
 Date: 18/12/2014, 10:00:10 AM

Application Data:	Compressor Frame: M302	Driver Data:	Site Data:
Est. Flow:: <b>1.063 MMscfd</b>	Rated Power: 120.0 HP	Type: Engine	Elevation: 0.291 ft
Load/Flow: <b>79.0 HP/MMscfd</b>	Stroke: 3.000 in	Manufacturer: Caterpillar	Atm. Pressure: 14.6960 psiA
Est. Total Load: <b>83.9 HP (100%)</b>	Rated Speed: 1800	Model: G3304-NA	Ambient Temp: 80.0 deg F
Run Speed: <b>1800</b>	Rod Diameter: 1.125 in	Rated Power: 95.0 HP	Gas Method: <b>Generic</b>
Auxiliary Load: 11.0 HP(d)	Max Rod Load Comp: 6000 lbf	Rated Speed: 1800	<b>Base Conditions for Flow Rates:</b>
Lubrication: Lubed	Max Rod Load Tens: 6000 lbf	Avail. Power: 84.0 HP	Pressure: 14.6960 psiA
Type: Miscellaneous	Max Rod Load Gas: 6000 lbf	Amb. Derate: Fixed	Temperature: 60.0 deg F
<b>ISSUES: (No Performance Guarantee at this point.)</b>			
Project Notes: No Gas Analysis Entered,			
Case Notes:			
Order Status:			

Stage/Service Data:	Stage-1	Stage-2
Flow Rate: MMscfd	1.06	1.06
Load: HP	51.2	28.7
Specific Gravity: -	0.6500	0.6500
K Value (Cp/Cv): -	1.2400	1.2400
Zs: -	0.9773	0.9606
Zd: -	0.9711	0.9565
Suction Press.: psiG	125.00	292.22
Ps@Flange: psiG	120.81	292.22
Pd@Flange: psiG	298.36	459.29
Discharge Press.: psiG	292.22	450.00
Compress. Ratio: -	2.3103	1.5444
Suction Temp.: deg F	40.0	80.0
Cooler Temp.: deg F	80.0	n/a

Cylinder Data:	Throw-1	Throw-2	Throw-3	Throw-4	Throw-5	Throw-6
Model: -	M-Series	M-Series				
Operating Mode: -	D/A Cyl	D/A Cyl				
<b>Head End</b>	<b>Stage</b>	<b>Stg-1</b>	<b>Stg-2</b>	-	-	-
Bore: in	5.5	3				
MAWP: psiG	1000	1440				
RDP: psiG	909	1309				
Tail Rod Dia: in	0	0				
Est. Td: deg F	137.6	135.6				
VVCP Open: in : Turns	4.19 : 34	1.05 : 8				
Base Clr: %	15.28	15.99				
Added Clr: %	65.05	24.25				
Total Clr: %	80.33	40.24				
Vol. Eff. Suct.: %	20.96	81.99				
Vol. Eff. Disch.: %	10.60	57.51				
Flow: MMscfd	0.22	0.54				
<b>Crank End</b>	<b>Stage</b>	<b>Stg-1</b>	<b>Stg-2</b>	-	-	-
Bore: in	5.5	3				
MAWP: psiG	1000	1440				
RDP: psiG	909	1309				
Est. Td: deg F	137.6	135.6				
Base Clr: %	13.38	18.10				
Added Clr: %	0.00	0.00				
Total Clr: %	13.38	18.10				
Vol. Eff. Suct.: %	84.78	91.32				
Vol. Eff. Disch.: %	42.88	64.05				
Flow: MMscfd	0.84	0.52				
Valve Spacers: HE#/CE#	0 / 0	0 / 0				
<b>Rod Loads</b>						
Gas-Compress.: %	78.6	31.1				
Gas-Tension: %	72.1	19.4				
Net-Compress.: %	45.4	45.4				
Net-Tension: %	50.4	36.1				
Pin Reversal: Deg/Mag%	n/a	n/a				
<b>Throw Loading</b>	<b>HP</b>	51.2	28.7			

**BOLD = Out of Limit**

**FILE:**