



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, 9:58:49 AM

Application Data:	Compressor Frame: M302	Driver Data:	Site Data:
Est. Flow:: 0.802 MMscfd	Rated Power: 120.0 HP	Type: Engine	Elevation: 0.291 ft
Load/Flow: 104.6 HP/MMscfd	Stroke: 3.000 in	Manufacturer: Caterpillar	Atm. Pressure: 14.6960 psiA
Est. Total Load: 83.9 HP (100%)	Rated Speed: 1800	Model: G3304-NA	Ambient Temp: 80.0 deg F
Run Speed: 1800	Rod Diameter: 1.125 in	Rated Power: 95.0 HP	Gas Method: Generic
Auxiliary Load: 11.0 HP(d)	Max Rod Load Comp: 6000 lbf	Rated Speed: 1800	Base Conditions for Flow Rates:
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
ISSUES: -			
Project Notes: No Gas Analysis Entered,			
Case Notes:			
Order Status:			

Stage/Service Data:	Stage-1	Stage-2
Flow Rate: MMscfd	0.80	0.80
Load: HP	50.2	29.6
Specific Gravity: -	0.6500	0.6500
K Value (Cp/Cv): -	1.2400	1.2400
Zs: -	0.9855	0.9673
Zd: -	0.9803	0.9625
Suction Press.: psiG	75.00	240.13
Ps@Flange: psiG	72.31	240.13
Pd@Flange: psiG	245.22	459.29
Discharge Press.: psiG	240.13	450.00
Compress. Ratio: -	2.9874	1.8601
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				
Head End	Stage	Stg-1	Stg-2	-	-	-
Bore: in	5.5	3				
MAWP: psiG	1000	1440				
RDP: psiG	909	1309				
Tail Rod Dia: in	0	0				
Est. Td: deg F	171.1	157.9				
VVCP Open: in : Turns	1.33 : 11	1.02 : 8				
Base Clr: %	15.28	15.99				
Added Clr: %	20.67	23.70				
Total Clr: %	35.95	39.69				
Vol. Eff. Suct.: %	46.80	72.68				
Vol. Eff. Disch.: %	19.26	43.84				
Flow: MMscfd	0.31	0.40				
Crank End	Stage	Stg-1	Stg-2	-	-	-
Bore: in	5.5	3				
MAWP: psiG	1000	1440				
RDP: psiG	909	1309				
Est. Td: deg F	171.1	157.9				
Base Clr: %	13.38	18.10				
Added Clr: %	0.00	0.00				
Total Clr: %	13.38	18.10				
Vol. Eff. Suct.: %	77.91	86.64				
Vol. Eff. Disch.: %	32.06	52.27				
Flow: MMscfd	0.49	0.41				
Valve Spacers: HE#/CE#	0 / 0	0 / 0				
Rod Loads						
Gas-Compress.: %	78.1	35.6				
Gas-Tension: %	75.0	24.5				
Net-Compress.: %	42.7	43.1				
Net-Tension: %	51.7	30.6				
Pin Reversal: Deg/Mag%	n/a	n/a				
Throw Loading	HP	50.2	29.6			

BOLD = Out of Limit

FILE: