



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: 19/12/2014, 7:19:52 PM

Application Data:	Compressor Frame: M302	Driver Data:	Site Data:
Est. Flow:: 0.827 MMscfd	Rated Power: 120.0 HP	Type: Engine	Elevation: 0.291 ft
Load/Flow: 101.5 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	0.83	0.83
Load: HP	55.1	24.9
Specific Gravity: -	0.6500	0.6500
K Value (Cp/Cv): -	1.2400	1.2400
Zs: -	0.9847	0.9629
Zd: -	0.9790	0.9585
Suction Press.: psiG	80.00	274.14
Ps@Flange: psiG	77.16	274.14
Pd@Flange: psiG	279.92	459.29
Discharge Press.: psiG	274.14	450.00
Compress. Ratio: -	3.2073	1.6410
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	180.1	142.4				
VVCP Open: in : Turns	1.14 : 9	3.06 : 25				
Base Clr: %	15.28	15.99				
Added Clr: %	17.75	71.08				
Total Clr: %	33.03	87.07				
Vol. Eff. Suct.: %	46.03	55.95				
Vol. Eff. Disch.: %	17.88	37.35				
Flow: MMscfd	0.32	0.35				
Crank End	Stage	Stg-1	Stg-2	-	-	-
Bore: in	5.5	3				
MAWP: psiG	1000	1440				
RDP: psiG	909	1309				
Est. Td: deg F	180.1	142.4				
Base Clr: %	13.38	18.10				
Added Clr: %	0.00	0.00				
Total Clr: %	13.38	18.10				
Vol. Eff. Suct.: %	75.74	89.87				
Vol. Eff. Disch.: %	29.42	60.00				
Flow: MMscfd	0.51	0.48				
Valve Spacers: HE#/CE#	0 / 0	0 / 0				
Rod Loads						
Gas-Compress.: %	90.5	32.1				
Gas-Tension: %	86.5	20.6				
Net-Compress.: %	53.6	43.8				
Net-Tension: %	61.3	32.5				
Pin Reversal: Deg/Mag%	n/a	n/a				
Throw Loading	HP	55.1	24.9			

BOLD = Out of Limit FILE: Program.hsr

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