



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, 9:55:41 AM

Application Data:	Compressor Frame: M302	Driver Data:	Site Data:
Est. Flow:: 0.853 MMscfd	Rated Power: 120.0 HP	Type: Engine	Elevation: 0.291 ft
Load/Flow: 98.3 HP/MMscfd	Stroke: 3.000 in	Manufacturer: Caterpillar	Atm. Pressure: 14.6960 psiA
Est. Total Load: 83.8 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	0.85	0.85			
Load: HP	54.3	25.5			
Specific Gravity: -	0.6500	0.6500			
K Value (Cp/Cv): -	1.2400	1.2400			
Zs: -	0.9855	0.9666			
Zd: -	0.9802	0.9625			
Suction Press.: psiG	75.00	245.03			
Ps@Flange: psiG	72.31	245.03			
Pd@Flange: psiG	250.22	408.29			
Discharge Press.: psiG	245.03	400.00			
Compress. Ratio: -	3.0449	1.6286			
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	174.1	141.8				
VVCP Open: in : Turns	0.90 : 7	1.36 : 11				
Base Clr: %	15.28	15.99				
Added Clr: %	13.89	31.59				
Total Clr: %	29.17	47.58				
Vol. Eff. Suct.: %	55.02	75.84				
Vol. Eff. Disch.: %	22.30	50.96				
Flow: MMscfd	0.36	0.42				
Crank End	Stage	Stg-1	Stg-2	-	-	-
Bore: in	5.5	3				
MAWP: psiG	1000	1440				
RDP: psiG	909	1309				
Est. Td: deg F	174.1	141.8				
Base Clr: %	13.38	18.10				
Added Clr: %	0.00	0.00				
Total Clr: %	13.38	18.10				
Vol. Eff. Suct.: %	77.34	90.06				
Vol. Eff. Disch.: %	31.34	60.52				
Flow: MMscfd	0.49	0.43				
Valve Spacers: HE#/CE#	0 / 0	0 / 0				
Rod Loads						
Gas-Compress.: %	81.3	28.9				
Gas-Tension: %	76.7	18.7				
Net-Compress.: %	50.0	43.6				
Net-Tension: %	53.2	35.5				
Pin Reversal: Deg/Mag%	n/a	n/a				
Throw Loading	HP	54.3	25.5			

BOLD = Out of Limit

FILE:

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