

WEATHERFORD COMPRESSION SERVICES

LOCATION: JumpBush
ELEVATION(FT):2919
Tc(DEG R):386.0

ATMOS. PR.(PSIA):13.197
Pc(PSIA):669.5

DATE: 03-26-2001
AMB.TEMP(DEG F):100

DRIVER: Waukesha

COMPRESSOR: GEMINI

STROKE (IN): 5.000

MODEL: L5108GSI

MODEL: E504

ROD DIA (IN): 2.250

MAX BHP: 1122

MAX BHP: 4800.0

R/L TENSION: 40000

MAX RPM: 1200

MAX RPM: 1500

R/L COMPR: ~~47500~~ 40000

DRIVER LOAD(%): 64.3

DESIGN RPM: 1200

PISTON SPEED (FPS): 1000

CYLINDER DATA

CYLINDER #	1	2	3
STAGE #	1	2	3
CYL. BORE.....(IN)	20.000	11.000	6.250
M.A.W.P.(PSIG)	250	1000	2200
CYL. ACTION .(DA/SA)	DA	DA	DA
PISTON DISPL..(ACFM)	2167.9	646.1	199.2

PRESSURES AND TEMPERATURES

	1	2	3
INLET PRES....(PSIG)	5.0	58.4	242.2
DISCH. PRES...(PSIG)	60.1	249.5	925.0
COMP. RATIO .(Pd/Ps)	4.1	3.7	3.7
Ts.....(DEG-F)	68	120	120
Td (ADIAB)...(DEG-F)	245	298	300
Td (EST.) ... (DEG-F)	264	304	307

FLOW CONDITIONS AND HORSEPOWER

	1	2	3
CAP.PER CYL.(MMSCFD)	2.41	2.41	2.41
STAGE CAP...(MMSCFD)	2.41	2.41	2.41
SP. GRAVITY..(Air=1)	.689	.689	.689
K VALUE(Cp/Cv)	1.260	1.260	1.260
ZS.....	.996	.990	.964
ZD.....	.995	.987	.961
CYL. IHP ..(PER/CYL)	205	203	200
CYL. BHP(TOTAL)	667		
TOTAL UNIT BHP	667 + 56(parasitic hp) = 723		

CLEARANCE DATA

	1	2	3
H.E. BASE CLR....(%)	13.97	19.47	21.62
C.E. BASE CLR....(%)	13.98	18.16	22.33
ADDED CLR H.E....(%)	.0	.0	.0
ADDED CLR H.E.(IN^3)	.0	.0	.0
PKT.TRAVEL.....(IN)	.00	.00	.00
ADDED CLR C.E....(%)	.0	.0	.0
ADDED CLR C.E.(IN^3)	.0	.0	.0
H.E. VOL. EFF....(%)	63.51	57.25	52.77
C.E. VOL. EFF....(%)	63.49	59.63	51.46
VLV.VEL. INLET.(FPM)	6322	6129	5977
VLV.VEL. DISCH.(FPM)	6322	6129	5977

ROD LOADS AND REVERSALS

	1	2	3
ROD LOAD TENS...(LB)	17087	17119	17468
ROD LOAD COMPR..(LB)	17450	18449	22251
ROD LOAD..(COMBINED)	34537	35568	39719
REVERSAL.....(YES/NO)	YES	YES	YES

EAZY SIZE VERSION #:2.80-SE1

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