

Module Setup 1163 - Trail c-18-B			
Detection Number	1163	Asset Name	Trail c-18-B
Client Asset #	1163	Asset Location	c-18-B/94-O-9
Asset Type	Recip	Recipient Location	
Latitude	59.514583	Elevation - fast	2197
Longitude	-122.221875	Time Zone	Canada/Mountain
Area	British Columbia1	Field	Trail1
Foreman	Tom Keetley		
Operator		Province/State	British Columbia
Packager Name	Enerflex	Package Serial #	090651
Package Manufacturer Date			
Noise Suppression Installed		Asset Sound Level (dB)	0
Noise Suppression Description			
Cost Center Code	FAC170083		
Eub License Num		Environmental Registration #	
Asset Properties			
Gas Working Interest %	100	Gas Pricing - \$/mscf	2
Skid Type	Housed	Electricity Pricing - \$/kWh	0.1
Field Limitation	Yes	Sour Service	No
Ownership Status	Owned	Asset Application	Gathering
Disable HP Savings CFR Due To Bypass	No	Vibration Planes	1
Setup Date	3/31/2010	Setup Fee	Setup Fee # 1
		Enalysis Fee	Enalysis Fee # 1
Active Status	Active	Using Maintenance	No
Stand-by	No	Using SCADA	Yes
Remote Asset ID	1163		

Gas Analysis 1163 - Trail c-18-B

Stream Name	Inlet	Fuel
Stream Type	Inlet Stream	Fuel Gas
Sample Date	05/12/2014	05/12/2014
Hydrogen	0.0001	0.0001
Helium	0.0004	0.0004
Nitrogen	0.0051	0.0079
Carbon Dioxide	0.1214	0.1207
Hydrogen Sulfide	0.0000	0.0000
Methane	0.8719	0.8698
Ethane	0.0011	0.0011
Propane	0.0000	0.0000
ISO Butane	0.0000	0.0000
Normal Butane	0.0000	0.0000
ISO Pentane	0.0000	0.0000
Normal Pentane	0.0000	0.0000
Hexane	0.0000	0.0000
Heptane	0.0000	0.0000
Octane	0.0000	0.0000
Oxygen	0.0000	0.0000
Ammonia	0.0000	0.0000
Water	0.0000	0.0000
Pseudo Critical Temperature Adjustment	13.88	13.82
Specific Gravity	0.674	0.674
Dehydrated Gas	Yes	Yes
Temperature Base - °F	60	60
Pressure Base - psia	14.696	14.696

Driver Setup 1163 - Trail c-18-B

Manufacturer	Caterpillar	Model	G3608TALE/AFRC
Serial Number	BEN00648	Asset Tracking Number	
Driver Type	Turbo	Engine Manufacturer Date	
Engine Configuration	Inline	Number of Cylinders	8
Compression Ratio	9.2		
Rated rpm	1000	Min rpm	750
Max Horsepower @Sea Level	2370	Max Derated Horsepower	2370
Min Horsepower @Sea Level	1778	Min Derated Horsepower	1778
Fuel Requirements - Btu/hphr	6819	Inlet Stream LHV - Btu/ft ³	792.8
Engine Timing - BTDC °	18.4	Air / Fuel Ratio	8.94
Max Boost - psig	22.95	Max Engine Exhaust Temp - °F	859
Exhaust Flow - cfm	16162	Exhaust O2 %	11.9
Max Engine NOx - g/bhp-hr	0.5	Max Engine CO - g/bhp-hr	2.76
Max Engine CO2 - g/bhp-hr	465	Overall Exhaust dB @ 1.5m	131.9
Water Pump - hp	47.4	Other Auxiliary Draw - hp	0
Max Top End Overhaul Hours	999999	Max BTTM End Overhaul Hours	999999
Max Oil Change Hours	999999	Ambient Operating Temp - °F	60
Gear Ratio	1	Compressor rpm @ Rated Driver rpm	1000
Intake Valve Recession Limit	0.09	Exhaust Valve Recession Limit	0.09
Valves per Cylinder	2	Stroke Type	
Burn Type		Burn Type Effective Date	
Engine Muffler Make		Engine Muffler Model	
Engine Muffler Serial Number		Engine Coolant Type	
Catalytic Converter Installed	N/A		
Catalytic Converter Make		Catalytic Converter Model	
Catalytic Converter Serial Number		Element Installed	

Engine Flags Setup 1163 - Trail c-18-B

Pressure - psig	High	High	Low	Low	Temperature - °F	High	High	Low	Low
Oil Header	95	84	37	30	Oil Header	220	210	170	140
Jacket	8	7	4	3	Jacket	210	200	180	150
Fuel Gas	47	46	2	1.5	Fuel Gas	140	120	70	50
Intercooler	8	7	4	3	Intercooler	170	161	94	77
Intake Manifold	76	75	26.4	13	Intake Manifold	167	155	82	60
					Exhaust Manifold	1238	1225	628	565
					Aux. Water	135	130	117	100
					Cylinder Deviation	75			

Frame Setup 1163 - Trail c-18-B

Manufacturer	Ariel	Model	JGC/4
Serial Number	F-33102	Asset Tracking Number	
Manufacturer Date Frame		Stroke - inches	6.5
Number of Throws	4	Number of Stages	2
Unloader Type	None		
Rod Load Type	Internal		
Max Compression - lbs	60000	Max Tension - lbs	57000
Total Max Rod Load - lbs	114000		
Dynamic Max Compression - lbs	96000	Dynamic Max Tension - lbs	96000
Max Overhaul Hours	999999	Max Horsepower	4140
Rated rpm	1000	Min rpm	500

Cylinder Setup 1163 - Trail c-18-B				
Stage	1	1	2	2
Throw	2	4	1	3
Cylinder Model	10-3/8CM	10-3/8CM	7-1/4C	7-1/4C
Dummy Cylinder	No	No	No	No
Cylinder Serial #	C-113585	C-113587	C-113584	C-113586
Cylinder MAWP - psig	1900	1900	2415	2415
Lube Status	Lube	Lube	Lube	Lube
Cylinder Action	DA	DA	DA	DA
Cylinder Diameter - inches	10.375	10.375	6.75	6.75
Rod Diameter - inches	2.5	2.5	2.5	2.5
Tail Rod Diameter - inches	0	0	0	0
Associated Gas Stream	Inlet	Inlet	Inlet	Inlet
Orifice Data				
Suct. Internal Pipe Diam. - inches	6.875	6.875	4.897	4.897
Suct. Orifice Diam. - inches	4.875	4.875	3	3
Disc. Internal Pipe Diam. - inches	6.875	6.875	4.897	4.897
Disc. Orifice Diam. - inches	3.875	3.875	3.5	3.5

Cylinder Heating/Cooling Factor 1163 - Trail c-18-B				
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Heating/Cooling Factor - %	0	0	0	0
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Cylinder Blowby Thresholds 1163 - Trail c-18-B				
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SA Severe Threshold - %	20	20	20	20
SA Warning Threshold - %	12	12	12	12
DA Severe Threshold - %	15	15	15	15
DA Warning Threshold - %	7	7	7	7
Deviation Severe Threshold - %	1000	1000	1000	1000
Deviation Warning Threshold - %	10	10	10	10

Valve Setup 1163 - Trail c-18-B				
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Stage	1	1	2	2
Throw	2	4	1	3
HE Suction Valve Resist VHDS	4.44	4.44	4.44	4.44
HE Suction Valve Quantity	2	2	2	2
HE Suction Valve Lift - inches	0.102	0.102	0.094	0.094
HE Suction Valve Area - sq. in .	9.068	9.068	3.192	3.192
HE Discharge Valve Resist VHDS	4.44	4.44	4.44	4.44
HE Discharge Valve Quantity	2	2	2	2
HE Discharge Valve Lift - inches	0.102	0.102	0.087	0.087
HE Discharge Valve Area - sq. in .	9.068	9.068	2.926	2.926
CE Suction Valve Resist VHDS	4.44	4.44	4.44	4.44
CE Suction Valve Quantity	2	2	2	2
CE Suction Valve Lift - inches	0.102	0.102	0.094	0.094
CE Suction Valve Area - sq. in.	9.068	9.068	3.192	3.192
CE Discharge Valve Resist VHDS	4.44	4.44	4.44	4.44
CE Discharge Valve Quantity	2	2	2	2
CE Discharge Valve Lift - inches	0.102	0.102	0.087	0.087
CE Discharge Valve Area - sq. in .	9.068	9.068	2.926	2.926
Suction Valve Manufacturer				
Suction Valve Model				
Suction Valve Type				
Discharge Valve Manufacturer				

Discharge Valve Model						
Discharge Valve Type						

Clearance Setup 1163 - Trail c-18-B

Stage	1	1	2	2		
Throw	2	4	1	3		
HE Clearance Min - %	26.08	26.08	21.41	21.41		
HE Clearance Max - %	126.57	126.57	63.29	63.29		
Max Pocket Travel - inches	12.5	12.5	4.5	4.5		
HE Spacers Max Quantity	4	4	0	0		
HE Clearance per Spacer - %	3.98	3.98	0	0		
CE Clearance Min - %	28.28	28.28	24.96	24.96		
CE Clearance Max - %	28.28	28.28	24.96	24.96		
CE Spacers Max Quantity	4	4	0	0		
CE Clearance per Spacer - %	4.22	4.22	0	0		

Reciprocating Setup 1163 - Trail c-18-B

Stage	1	1	2	2		
Throw	2	4	1	3		
Con. Rod Length - inches	17	17	17	17		
1/3 Con Rod Weights - lbs.	55.17	55.17	55.17	55.17		
Crosshead Pin Weight - lbs.	0	0	0	0		
Piston Weight - lbs.	249.39	249.39	125.71	125.71		
Rod Weight - lbs.	0	0	0	0		
Crosshead Weight - lbs.	144.7	144.7	246.6	246.6		
Balance Weight Added - lbs.	19.2	19.2	39.1	39.1		
Total Weight - lbs.	468.46	468.46	466.58	466.58		

Aerial Cooler Setup 1163 - Trail c-18-B

Manufacturer	Air-X-Changer		Model	108F3S		
Serial Number	095281		Horsepower Draw	83.5		
Coolant Type			Rated RPM			
Blade RPM			Blade Diameter			
Electricity Draw						
Stage	1	2				
Design Pressure MAWP - psig	1287	2400				
Required Temperature Out - °F	120	120				
Estimated Pressure Drop - psig	8.3	3.9				
Max Design Temperature - °F	350	350				
# of Passes/Section						
# of Tubes/Section						
# of Rows						
Tube O.D. - inches						
Tube Gauge						
Tube I.D. - inches						
Length of Tubes - feet						
Tube Material - feet						
Corrosion Allowance - inches						
Fouling Factor						
Ambient Air Design Temp - °F						

Design Conditions Setup 1163 - Trail c-18-B

Stage	1	2				
PSV Setting - psig	1282	2400				
Max Discharge Valve Temp - °F	299.99	299.99				
Piping/Bottles Max Temp - °F	350	350				
Discharge Piping/Bottles MAWP - psig						

Date

Operator Log

04/27/2010	Brand new unit, all data assumed to be from Tattoo & Maxhamish. Edmund Wang
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Reporting Compliance 1163 - Trail c-18-B

Set Expected Interval	No
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Links to related asset modules.



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