



CLIENTE – CUSTOMER

STOGIT <1>

FIRENZE

LOCALITA' - PLANT LOCATION

SETTALA - ITALY

COMMESSA - JOB

1607371

IMPIANTO – PLAN

CENTRALE DI SETTALA

GAS TURBINE DATA SHEET

PGT25 DLE

4	28/10/11	REV.WHERE SHOWN <4>	NP	NP	NP	
3	06/09/11	REV.WHERE SHOWN <3>	NP	NP	NP	
2	01/07/11	REV.WHERE SHOWN <2>	NP	NP	NP	
1	01/06/11	REV.WHERE SHOWN <1>	NP	NP	NP	
0	05/04/11	EMISSIONE – ISSUED	NP	NP	NP	
REV. REV.	DATA DATE	DESCRIZIONE / DESCRIPTION	DISEGN. DRAFT.	CONTR. CHECK'D	APPROV. APPR'D	STATO REVIS. REV. STATUS

Stogit
Stocaggi Gas Italia SpA
Sede Operativa di CremaCENTRALE DI TURBOCOMPRESSIONE
SETTALA TC-3

GAS TURBINE DATA SHEET PGT25 DLE

SCALA SCALE	SOSTITUISCE IL SUPERSEDES N.	SOSTITUITO DAL SUPERSEDED BY N.	AREA IMP. PLANT AREA	UNITA' IMP. PLANT UNIT	IDENTIFICATIVO DOCUMENTO DOCUMENT IDENTIFIER		FG. / DI SH. / DF
	SOK0929170			TC-3	0120	00DMGA12804	1 / 11

4	Revised where shown <4>	U.T.E.	Ardis D.	Bianchi P.	28/10/11		
3	Revised where shown <3>	U.T.E.			06/09/11		
2	Revised where shown <2>	U.T.E.			01/07/11		
1	GENERAL REVISION	U.T.E.			01/06/11	N. SOK 0929170 /4	
0	EMISSIONE - ISSUED	U.T.E.			05/04/11	LINGUA-LANG.	PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	PREP'D	CONT-CHK'D	APP-APPR'D	DATA-DATE	A	1 / 2

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SOSTITUISCE IL - REPLACES

SOSTITUITO DA - REPLACED BY

Electronically approved draw. GE NuovoPignone Internal DT-'N'

GE Oil & Gas		PROJECT <u>ADEGUAMENTO CENTRALE DI SETTALA</u>	
		CLIENT <u>ENI - STOGIT</u>	
COMBUSTION GAS TURBINE (API 616-4TH) DATA SHEET S I UNITS		Project No. Unit Type of Doc. Code & Progressive Rev Sheet 1 of 10	
1 APPLICABLE TO: ☒ PROPOSAL ☐ PURCHASE ☐ AS BUILT		ITEM <u>MR</u>	
2 FOR <u>ENI - STOGIT</u>		UNIT <u>1</u>	
3 SITE <u>SETTALA (MI) - ITALIA</u>		SERIAL NUMBER	
4 SERVICE <u>STOCCAGGIO <3></u>		NUMBER REQUIRED <u>N. 1 TRENO TURBOCOMPRESSORE</u>	
5 ☒ CONTINUOUS ☐ INTERMITTENT ☐ STANDBY		DRIVEN EQUIPMENT <u>2BCL456/A</u>	
6 MANUFACTURER <u>GE - NP</u> ☒ MODEL <u>PGT25 DLE</u>		ISO RATING (3.17) <u>23262</u> KW @ <u>6500</u> RPM	
7 NOTE: INFORMATION TO BE COMPLETED: ☐ BY PURCHASER ☒ BY MANUFACTURER ☐ BY MFR IF NOT BY PURCHASER			
8 GENERAL			
9 CYCLE: ☐ REGEN ☒ SIMPLE ☐ EXHAUST HEAT RECOVERY TYPE: ☐ SINGLE SHAFT ☒ MULTI SHAFT			
10 DRIVEN EQUIPMENT: NORMAL SHAFT, KW _____ @ _____ RPM RATED SHAFT KW _____ @ _____ RPM			
11 OUTPUT SHAFT SPEED RANGE (4.1.5) ☒ MIN <u>3250</u> ☒ MAX <u>6825</u> RPM			
12 ☐ DESIRED MINIMUM SITE POWER _____ KW @ _____ RPM			
13 OPERATION ☐ ATTENDED ☒ UNATTENDED ☐ POTENTIAL MAXIMUM POWER (3.33) _____ KW			
14 PERFORMANCE		14 LOCATION (4.1.19)	
15 GAS TURBINE INCLUDING ALL LOSSES (****)		☒ INDOOR ☐ OUTDOOR ☐ GRADE	
		☐ HEATED ☐ UNDER ROOF ☐ MEZZANINE	
		☒ UNHEATED ☐ PARTIAL SIDES ☐ _____	
		ELECTRICAL AREA CLASSIFICATION(4.1.14)	
		☐ NON-HAZARDOUS ☒ HAZARDOUS (***): _____	
		APPLICABLE CODE: ☐ NEC 500 ☐ NEC 50E ☒ IEC	
		CLASS: <u>2</u> GROUP: <u>IIB</u> TEMPERATURE CODE: <u>T3</u>	
		AREA CLASSIFICATION ☐ DIVISION ☒ ZONE <u>2</u>	
		☐ THIRD PARTY CERTIFICATION REQUIRED	
		☐ WINTERIZATION REQD	
		☐ TROPICALIZATION REQD (5.4.6.6)	
		UNUSUAL CONDITIONS: ☐ DUST ☐ FUMES	
		☐ CORROSIVE AGENTS (4.10.1.1) _____	
		☐ OTHER (5.5.3.4) _____	
		NOISE SPECIFICATIONS: (4.1.10)	
		☒ APPLICABLE TO MACHINE: (5.7.4.1) (*1)	
		SEE SPECIFICATION _____	
		☐ APPLICABLE TO NEIGHBORHOOD: (5.7.4.2)	
		SEE SPECIFICATION _____	
15 PERFORMANCE		15 LOCATION (4.1.19)	
16 GAS TURBINE INCLUDING ALL LOSSES (****)		☒ INDOOR ☐ OUTDOOR ☐ GRADE	
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GE Oil & Gas

PROJECT ADEGUAMENTO CENTRALE DI SETTALA

CLIENT ENI - STOGIT

COMBUSTION GAS TURBINE (API 616-4TH)
DATA SHEET
S I UNITS

Project No. Unit Type of Doc. Code & Progressive Rev Sheet
0 0 SP 0 2 of 10

1 FUEL SYSTEM (5.8)				
2 TYPE ☒ GAS (5.8.2) ☐ LIQUID (5.8.3) ☐ DUAL (5.8.1.5.1)				
3 DUAL SYSTEM REQMTS (5.8.1.5.1) ☐ GAS/GAS ☐ GAS/LIQUID ☐ LIQUID/LIQUID				
4 ☐ COMPLETE FUEL RECEIVING SYSTEM (5.8.1.1) ☐ MAXIMUM TIME ALLOWED TO COMPLETE TRANSFER _____ SECONDS				
5				
6 GAS FUELS (5.8.2) [2]		LIQUID FUELS (5.8.3)		
7		FUEL GRADE (5.8.3.3)		
8		ASTM D1655 ☐ ASTM ☐ 0GT ☐ 1GT		
9 ☐ FUEL ANALYSIS - MOL % (5.8.2.1)		JET ☐ A ☐ A-1 ☐ B D2880 ☐ 2GT ☐ 3GT ☐ 4GT		
10 COMPOSITION: M.W. NORMAL STARTING ALT		☐ OTHER, INDICATE ANALYSIS BELOW (5.8.3.3 c)		
11 AIR 29 _____		LIQUID FUEL TREATMENT REQUIRED ☒ YES ☐ NO		
12 OXYGEN 32 _____		TREATMENT SYSTEM BY ☐ VENDOR ☐ OTHER _____		
13 NITROGEN 38 0.35 0.91 0.3		FUEL TRANSFER EQUIP REQUIRED (5.8.1.4.5) ☐ YES ☐ NO		
14 WATER VAPOR 18 _____		HEATER REQUIRED (5.8.1.4.4) ☐ YES ☐ NO		
15 CARBON MONOXIDE 28 _____		☐ LIQUID FUEL PRESS REQUIRED, MAX/MIN, BARg _____		
16 CARBON DIOXIDE 44 0.01 1 6.2		FUEL ANALYSIS DATA (5.8.3.3)		
17 HYDROGEN 2 _____		ASTM METHOD MEASURED VALUE		
18 METHANE 16 99.18 93.27 82.2		PROPERTY VISCOSITY, SSU @ 38°C D-445 _____		
19 ETHYLENE 26 _____		DISTILLATION DATA D-86 _____		
20 ETHANE 30 0.4 3.32 7.17		50% RECOVERY, °C MAX _____		
21 PROPYLENE 42 _____		END POINT, °C MAX _____		
22 PROPANE 44 0.05 0.83 2.35		SULFUR CONTENT %WEIGHT, MAX. (SELECT APPL. METHOD)		
23 I-BUTANE 58 0.01 0.37 0.4 <1>		BOMB METHOD D-129 _____		
24 n-BUTANE 58 _____		LAMP METHOD D-1266 _____		
25 I-PENTANE 72 _____		HIGH-TEMP METHOD D-1552 _____		
26 n-PENTANE 72 _____		CARBON RESIDUE (ON 10% _____		
27 HEXANE PLUS _____		BOTTOMS) % WT. MAX. _____		
28		CONRADSON D-189 _____		
29 TOTAL 100 100 100		RAMSBOTTOM D-524 _____		
30 AVG. MOL. WT. _____		COPPER STRIP CORROSION PLATE D-130 _____		
31 CORS AGNTS (5.8.2.3) PPM _____		3 HOURS AT 100°C MAXIMUM _____		
32 CONTMNTS (5.8.2.2.1) PPM _____		AROMATIC CONTENT D-1319 _____		
33 LHV kJ/kg (5.8.2.4) 49737 47748 42404 <2>		ASH CONTENT D-482 _____		
34 FUEL PRESS.MAX/MIN, BARg / [3] /		SPECIFIC GRAVITY, 15°C D-1298 _____		
35 FUEL TEMPERATURE MAX/MIN, °C / [1] 35°C min, /		FLASH POINT, °C D-56 _____		
36 ☒ FUEL PRESSURE REQUIRED		POUR POINT, °C D-97 _____		
37 MAXIMUM/MINIMUM, BARg / 26.4 /		WATER D-95 _____		
38 COMPRESSION SYS REQD (5.8.1.2.2) ☐ YES ☐ NO		FILTERABLE DIRT, MG/100ML D-2276 _____		
39 HEATER REQD (5.8.2.1) [4] ☐ YES ☐ NO		TRACE METALS (ATOMIC _____		
40 ☐ RATE OF CHANGE OF LHV (5.8.2.4) _____		ABSORPTION PREFERRED) D-3605 _____		
41		SODIUM _____		
42 REMARKS: [1] FUEL GAS TEMP. REQUIRED AT BATTERY LIMIT(TP ref TP100):		POTASSIUM _____		
43 Min:28°C above dew point temperature in any case but no above 140°C, Fuel gas		VANADIUM _____		
44 Min. Temp. is 35°C.		CALCIUM _____		
45 [2] FUEL GAS SHALL BE IN COMPLIANCE WITH MID TD 00001 SPECS:		LEAD _____		
46 [3] Min. Pressure is 26.4 bara (at T. Amb. = 36.1 °C)		OTHER METALS _____		
47 & 29.2 bara (at T. Amb. = -13.8)		LOWER HEATING VALUE, MJ/kg D-2382 _____		
48 [4] heater requ. to be confirmed by Customer on the basis				
49 of fuel gas supply condition				
50				
51 ☐ BY PASS AND VENT VALVE (3.7.1.3)		☒ ISOLATION BLOCK VALVES ☒ ANSI FLANGE RATING		
52 ☐ TWIN Y-TYPE STRAINER WITH CONTINUOUS FLOW		☐ NACE MATERIAL STANDARDS (4.10.1.8)		
53 ☐ TRANSFER VALVE (5.8.1.2.4)				
2 REV. WHERE SHOWN <2>		N. SOK 0929170 /4		
1 REV. WHERE SHOWN <1>		LINGUA-LANG. PAGINA-SHEET		
REV DESCRIZIONE - DESCRIPTION		A 3 / 4		
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GE Oil & Gas

PROJECT ADEGUAMENTO CENTRALE DI SETTALA

CLIENT ENI - STOGIT

COMBUSTION GAS TURBINE (API 616-4TH)
DATA SHEET
S I UNITS

Project No. Unit Type of Doc. Code & Progressive Rev Sheet
0 0 SP 0 3 of 10

CONSTRUCTION FEATURES

☒ SPEEDS: (POWER TURBINE)
MAX. CONT. 6825 RPM TRIP 7150 RPM
☒ LATERAL CRITICAL SPEEDS (DAMPED)
FIRST CRITICAL 1830 RPM MODE
SECOND CRITICAL 9200 RPM MODE
THIRD CRITICAL RPM MODE
FOURTH CRITICAL RPM MODE
☐ PROTOTYPE OR MODIFIED ROTOR SUPPORT (4.7.3.5)
☐ TRAIN LATERAL ANALYSIS REQUIRED (D.1.3)
☐ TRAIN TORSIONAL ANALYSIS REQUIRED (2.7.4.5)
☒ TORSIONAL CRITICAL SPEEDS:
FIRST CRITICAL REFER TO TORSIONAL ANALYSIS 012000DMST12793 <2> RPM
SECOND CRITICAL 012000DMST12793 <2> RPM
THIRD CRITICAL SOM5084684 <3> RPM
FOURTH CRITICAL RPM
VIBRATION: (4.7.4.5) (7.2.3)
☒ ALLOWABLE TEST LEVEL: SHAFT MICRONS P/R
CASE 6.35 mm/SEC
☒ ROTATION, VIEWED FROM DRIVE END ☒ CW ☐ CCW

MATERIALS OF CONSTRUCTION (4.10)

COMPRESSOR ROTOR BLADES Ti-6Al-4V (st.1-14) A286 (st.15-16)
COMPRESSOR STATOR VANES Ti-6Al-4V(IGV-st.1-2)A258(st.3-16)
SHAFT INC 718 BLADE/VANE COATING
TURBINE STAGE NOZZLES BLADES WHEELS OR DISCS
1 G.G. X40 (*) Renè 80 (*) INC 718
2 G.G. Renè 80 (*) Renè 80 (*) INC 718
3 P.T. FSX 414 IN738 M152
4 P.T. FSX 414 IN738 M152
COMBUSTORS HASTELLOY Alloy X and HS 188
COMPRESSOR CASING Ti-6Al-4V and Inc. 718
COMBUSTOR CASING Inconel 718
TURBINE CASING Inc.718; Renè 41; CrMoV

GAUGE BOARDS AND CONTROL PANELS

AIR COMPRESSOR:
STAGES 16 MAXIMUM TIP SPEED 390 m/SEC
TYPE Axial Flow PRESSURE RATIO 18:1
CASING SPLIT (2.2.3) ☒ AXIAL ☒ RADIAL
ROTOR ☐ SOLID ☒ BUILT UP
TURBINE: G.G. / P.T.
STAGES 2+2 MAX. TIP SPEED 469/450 m/SEC
CASING SPLIT (4.2.3) ☒ AXIAL ☐ RADIAL
ROTOR ☐ SOLID ☒ BUILT UP
COMBUSTORS: (4.3.2) ANULAR COMBUSTOR
☐ SINGLE ☒ MULTIPLE, NUMBER
☒ GAS ☐ LIQUID ☐ DUAL FUEL
MAXIMUM ALLOWABLE TEMP. VARIATION 111 °C
APPLICABLE PLANE AT GAS GENER. EXHAUST
FUEL NOZZLES PER COMBUSTOR 75
☐ WOBBE INDEX NO REQD (4.3.7) ☐ MAX MIN
MAINTENANCE INTERVALS, HOURS
☒ HOT GAS PATH INSPECTIONS 25000
☒ MAJOR OVERHAULS 50000
☒ OTHER Boroscopic Inspection 4000
GOVERNOR (5.4.3)
☒ MFR'S STD. ☐ OTHER ☒ MAKE GE ☒ MODEL MK VI
☐ CONSTANT SPEED ☒ VARIABLE SPEED
☐ ISOCHRONOUS ☐ DROOP
REMOTE SHUTDOWN SIGNAL ☒ ELECTRIC
☐ PNEUMATIC ☐ HYDRAULIC ☐ NONE
MANUAL SPEED CHANGER, RPM 105% MAX. 60% MIN.
☒ MAINTAIN TURBINE SPEED UPON FAILURE OF CONTROL SIGNAL OR ACTUATOR

GAUGE BOARDS
☒ LOCATION SYNTHETIC OIL CONSOLE/MINERAL OIL CONSOLE
CONTROL CONSOLES (5.4.5.1.1) ☐ ON-SKID ☐ OFF SKID LOCAL
☒ OFF SKID REMOTE
WEATHER PROTECTION REQUIRED ☒ YES ☐ NO
☒ SPECIFICATION G.E./NUOVO PIGNONE STANDARD (IP10)
☐ ANNUNCIATOR REQUIRED (5.4.4.8.5)
☒ VISUAL DISPLAY UNIT (VDU) ☒ KEYBOARD

CONTROL SYSTEMS

TYPE (5.4.1.5)
☐ MECH ☐ PNEU ☐ HYDRA ☐ ELECTRIC ☒ ELECTRONIC
☒ MICROPROCESSOR BASED ☐ COMBINED
☐ SIGNAL SOURCE
☐ SENSITIVITY RANGE TO
☐ TIME OF AC OUTAGE PROTECTION MIN (5.4.1.6)
☐ SHUT OFF VALVES FOR SHUT DOWN SENSORS (5.4.4.9)
STARTING SYSTEM (5.4.2.1)
☒ MANUAL ☒ SEMI AUTOMATIC ☒ AUTOMATIC
☒ PURGE (5.4.2.2) 2 MINUTES <1>
☐ SEPARATE SHUTDOWN VALVE TEST DURING OPERATION

REMARKS:

(*) WITH COATINGS

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N. SOK 0929170 /4

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GE Oil & Gas

PROJECT ADEGUAMENTO CENTRALE DI SETTALA
CLIENT ENI - STOGIT

COMBUSTION GAS TURBINE (API 616-4TH)
DATA SHEET
S I UNITS

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CONSTRUCTION FEATURES CONTINUED (NOTE 1)

BEARINGS AND BEARING HOUSINGS (4.8)

RADIAL		(G.G.)	(P.T.) Brg1/Brg2	THRUST	(POWER TURBINE)	ACTIVE	INACTIVE
☒ TYPE	Brg1 / Brg2	ROLLER	Tilting Pads	☒ TYPE		Tilting Pads	Tilting Pads
☒ MANUFACTURER		GE Standard	WAUKESHA	☒ MANUFACTURER	<1>	WAUKESHA	WAUKESHA
☒ LENGTH, mm		GE Standard	72 / 72	☒ SHAFT DIAMETER mm	<1>	357	357
☒ SHAFT DIAMETER, mm		GE intellectual property	180 / 180	☒ BEARING SIZE mm	<1>	388	388
☒ UNIT LOAD (ACT/ALLOW), BAR			0.06 / 0.12	☒ UNIT LOAD (ACT/ALLOW), N/mm ²	<1>	3.78 / 7.56	3.06 / 6.12
☒ BASE MATERIAL		GE Standard	Carbon Steel	☒ NO. OF PADS/AREA, (cm ²)		8 / 529	18 / 294
☒ BABBITT THICKNESS, mm		Not Applic.	MFR STD	☒ BASE MATERIAL		Carbon Steel	Carbon Steel
☒ NO. PADS		Not Applic.	5 / 5	☒ BABBITT THICKNESS, mm		MFR STD	MFR STD
☒ LOAD: BETWEEN/ON PAD			ON PAD	☒ PIVOT: CENTER/OFFSET, %		Center	Center
☒ PIVOT: CENTER/OFFSET, %		Not Applic.	Center	LUBRICATION: ☐ FLOODED ☒ DIRECTED			
☐ DAMPER BEARING				THRUST COLLAR: ☒ INTEGRAL ☐ REPLACEABLE			

BEARING TEMPERATURE DEVICES (4.8.5.5) (*5)		☐ SEE ATTACHED API-670 DATA SHEET (*)		VIBRATION DETECTORS (4.8.5.3) (**)		☐ SEE ATTACHED API-670 DATA SHEET (*)	
☐ THERMOCOUPLES				☒ TYPE Proximity Probes ☒ MODEL 3300			
☐ SELECTOR SWITCH & IND. BY: PURCH MFR				☒ MFR BENTLY NEVADA			
☒ RESISTANCE TEMPERATURE DETECTORS				☒ NO. AT EACH SHAFT BEARING 2 TOTAL NO. 4			
☒ RESISTANCE MATERIAL PT ☒ 0-100 OHMS				☒ OSCILLATOR-DEMODULATOR SUPPLIED BY VENDOR			
☐ SELECTOR SWITCH & IND. BY: PURCH MFR				☒ MFR BENTLY NEVADA ☐ MODEL			
☒ LOCATION-JOURNAL BEARING 2 RDT'S PER EACH BRG				☒ MONITOR SUPPLIED BY (5.4.7.8.2) VENDOR (NP)			
NUMBER 2 EA PD brg EVERY OTH PAD 2 PER BRG				☒ LOCATION UCP-VDU ENCLOSURE			
OTHER				☒ MFR NP/GE ☒ MODEL MK VI			
☒ LOCATION-THRUST BEARING				☐ SCALE RGE ☐ ALARM SET @ MICRONS			
NO. (ACT) 2 EA PD brg EVERY OTH PAD 1 PER BRG				☐ SHUTDOWN ☐ SET @ MICRONS ☐ TIME DLY SEC			
OTHER				AXIAL POSITION DETECTOR (4.8.5.3):			
NO. (INACT) 1 EA PD brg EVERY OTH PAD 1 PER BRG				☐ SEE ATTACHED API-670 DATA SHEETS (*)			
OTHER				☐ Non contact ☒ MODEL 3300			
☒ MONITOR SUPPLIED BY (5.4.7.5) (*4)				☒ MFR BENTLY NEVADA ☒ NO. REQUIRED 2			
☒ LOCATION UCP ENCLOSURE				☒ OSCILLATOR-DEMODULATOR SUPPLIED BY VENDOR			
☒ MFR NP/GE ☒ MODEL MARK VI				☒ MFR BENTLY NEVADA ☐ MODEL			
☒ SCALE RANGE 0 ÷ 200 ☒ ALARM SET @ 110 °C				☒ MONITOR SUPPLIED BY (3.4.7.8.2) VENDOR			
☒ SHTDWN ☒ SET @ 130 °C ☐ TIME DLY SEC				☒ LOCATION UCP VDU ENCLOSURE			
REMARKS:				☒ MFR NP/GE ☒ MODEL MK VI			
(*) API STD 670 TO BE APPLIED INCLUDING				☒ SCALE RGE -1+1 mm ☒ ALARM SET @ +/-70 MICRONS			
NUOVO PIGNONE COMMENTS AND AXCEPTIONS				☒ SHTDWN ☒ SET @ +/-30 MICRONS ☐ TIME DLY SEC			
				VELOCIMETER TRANSDUCERS (***)			
				☐ SEE ATTACHED API-670 DATA SHEETS			
				☒ MFR VITEC or Equivalent ☒ MODEL LATER			
				☒ LOCATION P.T. CASING ☒ NUMBER 2 ON BRG N.2			
				☒ MONITOR SUPPLIED BY (3.4.7.8.4) G.T. Vendor			
				☒ LOCATION UCP ENCLOSURE			
				☒ MFR ON MK VI PANEL ☒ MODEL ON MK VI PANEL			
				☒ SCALE RGE 0 ÷ 50 ☒ ALARM SET @ 12,7 mm/sec			
				☒ SHTDWN ☒ SET @ 25,4 mm/s ☐ TIME DELAY SEC			

NOTES: (1) SEISMIC TRANSDUCERS INSTALLED ON CASING OF GAS TURBINE, GEARBOX

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PROJECT ADEGUAMENTO CENTRALE DI SETTALA

CLIENT ENI - STOGIT

COMBUSTION GAS TURBINE (API 616-4TH)
DATA SHEET
S I UNITS

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UTILITIES: CONNECTIONS

UTILITY CONDITIONS:

STEAM:

AUXILIARY DRIVERS

HEATING

INLET MIN BARG °C BARG °C
NORM BARG °C BARG °C
MAX BARG °C BARG °C
EXHST MIN. BARG °C BARG °C
NORM BARG °C BARG °C
MAX BARG °C BARG °C
STARTING INJECTION
INLET MIN BARG °C BARG °C
NORM BARG °C BARG °C
MAX BARG °C BARG °C
EXHST MIN. BARG °C BARG °C
NORM BARG °C BARG °C
MAX BARG °C BARG °C

ELECTRICITY: (5.4.6.1)

PILOT LIGHT INDICATORS

MOTORS HEATING CONTROL SHUTDOWN

VOLTAGE
HERTZ
PHASE
COOLING WATER
INLET TEMPERAT
DESIGN TEMPER.
NORM PRESS
DESIGN PRESS
WATER SOURCE
INSTRUMENT AIR
MAX

REFER TO ELECTRIC LOAD LIST
SOM6627659
(012000DEEU21312)
REFER TO UTILITY CONSUMPTION
LIST
SOM6628760
(012000DEEU21315)

REMARKS:

TOTAL UTILITY CONSUMPTION:

COOLING WATER
STEAM LEVEL
STEAM, NORMAL
STEAM, MAX
INSTRUMENT AIR
MOTORS (AUXILIARIES)
BATTERY CHARGERS
HEATERS
PURGE (AIR OR N₂)

REFER TO UTILITY
CONSUMPTION LIST
SOM6628760
(012000DEEU21315)
AND REFER TO
ELECTRIC LOAD LIST
SOM6627659

m³/HR
BARG
kg/HR
kg/HR
m³/HR
kW
kW
kW
m³/HR

TURBINE AIR EXTRACTION REQUIRED: (4.1.22)

NM³/HR @ BARG
MAXIMUM PRESSURE AVAILABLE AT MINIMUM SPEED: BARG
MINIMUM SPEED: RPM
DISCHARGE TEMPERATURE: °C
COMPRESSOR EXTRACTION STAGE NUMBER:

REMARKS:

PURCHASER CONNECTIONS

CONNECTION

DESIGN
APPROVAL
REQUIRED
(4.10.4.6.4)

SIZE

FACING
and
RATING

POSITION
(4.4.1)

FLANGED
OR
STUDDER
(4.4.1)

MATING FLG
& GASKET
BY VENDOR
(4.4.5.4)

GAS
VELOCITY
M/SEC

INLET

EXHAUST

FUEL SUPPLY

STEAM

WATER

REFER TO
PURCHASER CONNECTION DWG AND LIST
SOM6666751 <2>
(012000DTST12791)

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COMBUSTION GAS TURBINE (API 616-4TH) DATA SHEET S I UNITS					Project No. Unit Type of Doc. Code & Progressive Rev Sheet							
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INSTRUMENTS												
DESCRIPTION					INSTRUMENT TYPE		INSTRUMENT LOCATION		TRANS-MITTERS FURNISHED BY		CONTROL ROOM RECEIVERS FURN BY	
					INDICATING LOCAL GAUGE OR MK VI VDU RECORDING SWITCH OR TRASMITTER	LOCAL LOCAL PANEL GAUGE BOARD CONTROL ROOM MK VI UCP (***) <3>	VENDOR OTHERS	VENDOR OTHERS				
GAS GENERATOR OR SINGLE SHAFT GAS TURBINE					REFER TO SCHEMATIC PIPING & INSTRUMENT DIAGRAM SOM5081880 (012000DPFM12792)							
TACHOMETER(S) (NO. 2)												
Δ P AIR INLET SYSTEM												
COMPRESSOR DISCHARGE PRESSURE												
FUEL FILTER Δ P												
FUEL SUPPLY PRESSURE												
STARTING GAS SUPPLY PRESSURE												
STARTING GAS EXHAUST PRESSURE												
TEMP COMBUSTOR MEASUREMENT (6 PTS MIN) (4.3.2)												
TEMP GAS TURB CONTROL PLANE (6 PTS MIN)												
INLET AIR TEMPERATURE												
TEMPERATURE, GG COMPRESSOR DISCHARGE												
TEMPERATURE, THRUST BEARING OIL DRAIN												
TEMPERATURE, EACH BEARING SUMP (ROLLING ELEMENT TYPE)												
TEMPERATURE, FUEL MANIFOLD (Fuel Piping)												
TEMPERATURE, LUBE OIL RESERVOIR												
FIRED HOUR METER												
A) NUMBER STARTS COUNTER												
B) START SEQUENCE TIMER												
LUBE OIL RESERVOIR LEVEL												
LUBE OIL PUMP PRESSURE INDICATORS (NO)												
LUBE OIL COOLER OIL INLET TEMPERATURE												
LUBE OIL COOLER OIL OUTLET TEMPERATURE												
LUBE OIL COOLER COOLANT INLET TEMPERATURE												
LUBE OIL COOLER COOLANT OUTLET TEMPERATURE												
LUBE OIL FILTER Δ P												
LUBE OIL PRESSURE EACH LEVEL (NO. 3)												
CONTROL OIL PRESSURE												
SITE FLOW INDICATOR EACH DRAIN (NO.)												
INLET GUIDE VANE POSITION INDICATOR												
EXHAUST DUCT DIFFERENTIAL PRESSURE INDICATOR												
ENCLOSURE COOLING AIR EXHAUST TEMPERATURE												
POWER TURBINE												
TACHOMETER(S) (NO. 2)												
EXHAUST TEMPRTATURE (2 PTS MIN)												
JOURNAL BEARING TEMPERATURE (No 2 EACH BRG) (*1)												
THRUST BEARING TEMPER. (No1 INACT.& No2 ACTIV. SIDE) (*1)												
BEARING DRAIN TEMPERATURE												
SITE FLOW INDICATOR EACH DRAIN (NO.)												
LUBE OIL INLET PRESSURE												
LUBE OIL INLET TEMPERATURE												
<3> (***) Control system will be suitable for for conditioned safe area												
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COMBUSTION GAS TURBINE (API 616-4TH) DATA SHEET S I UNITS		Project No. Unit Type of Doc. Code & Progressive Rev Sheet 0 0 SP 0 7 of 10						
ALARMS AND SHUTDOWNS (5.4.4)								
DESCRIPTION		APPLIES TO:		(5.4.4.8.5) ANNUNCIATOR POINT IN VENDOR FURNISHED CONTROL PANEL (1)		SENSING DEVICES TO BE FURNISHED BY		INDICATING LIGHT ONLY (2)
		SINGLE SHAFT OR G.G.	SEP PWR TURB.	ALARM	SHUT- DOWN	VENDOR	OTHERS	
1	RADIAL SHAFT VIBRATION (NO. 4 ON PT ONLY) OPTIONAL		REFER TO SCHEMATIC PIPING & INSTRUMENT DIAGRAM SOM5081880 (012000DPFM12792)					
2	AXIAL THRUST POSITION (NO. 2 ON PT ONLY)							
3	OVERSPEED (1) (NO. 2 + 2)							
4	CASING VIBRATION (NO. 1 + 1)							
5	HIGH THRUST BEARING TEMPERATURE							
6	HIGH RADIAL BEARING TEMPERATURE							
7	LOW FUEL SUPPLY PRESSURE							
8	HIGH FUEL FILTER Δ P							
9	GAS TURBINE TEMPERATURE SPREAD HIGH							
10	EXHAUST OVER TEMPERATURE							
11	FAILURE OF OVER-TEMPERATURE SHUTDOWN DEVICE							
12	HIGH INLET AIR Δ P EACH FILTER							
13	COMBUSTOR FLAME-OUT (UV DETECTORS)							
14	CHIP DETECTOR, ANTI FRICTION BEARING							
15	FAILURE STARTING CLUTCH TO ENGAGE OR DISENGAGE							
16	LOW OIL PRESSURE (NO. 3)							
17	HIGH LUBE OIL TEMPERATURE							
18	LOW LUBE OIL RESERVOIR LEVEL							
19	HIGH LUBE OIL RESERVOIR LEVEL							
20	HIGH OIL FILTER Δ P (NO.)							
21	LUBE OIL SPARE PUMP OPERATING							
22	LOW CONTROL OIL PRESSURE							
23	LOW STARTING GAS PRESSURE							
24	ANTI-ICING SYSTEM - NOT OPERATING							
25	LOW D.C. VOLTAGE							
26	EMERGENCY D.C. PUMP OPERATING							
27	RESERVOIR HEATER "ON"							
28	IMPLOSION DOOR OPEN							
29	EXTERNAL PERMISSIVE START SIGNAL							
30	EXTERNAL SHUTDOWN SIGNAL							
31	LOSS OF AUXILIARY COOLING AIR							
32	LAMP TEST PUSH BUTTON							
33	ENCLOSURE HIGH TEMPERATURE							
34	CONTROL SIGNAL FAILURE							
35	CONTROL SYSTEM ACTUATOR FAILURE							
36	GOVERNOR FAILURE							
37	ENCLOSURE VENT FAN FAILURE							
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
NOTES: (1) VENDOR TO ADVISE METHOD OF ANNUNCIATION								
(2) VDU MAY USE MESSAGE INDICATOR								
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COMBUSTION GAS TURBINE (API 616-4TH)
DATA SHEET
SI UNITS

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ACCESSORIES SUPPLIED BY GAS TURBINE MANUFACTURER

STARTING AND HELPER DRIVERS (5.1)

- ☒ STARTER ONLY (5.1.1.2) ☐ STARTER/HELPER (5.1.1.3)
TYPE (5.1.1.1) ☐ MOTOR ☐ STEAM TURBINE
☐ GAS EXPANDER ☐ IC ENGINE ☒ HYDRAULIC
☐ GAS TURBINE ☒ STARTER IS CLUTCHED (5.1.1.7)
☐ HELPER RATING (5.1.2.2) _____ kW
☒ STARTER RATING (5.1.2.1) 132 kW
☐ SHAFT TURNING DEVICE REQUIRED (5.1.3.1)

☒ MOTOR:

TYPE	Induction motor	RATING	132	kW
MFR	Rexroth	MODEL	LATER	<1>

☐ STEAM TURBINE (REFERENCE API DATA SHEETS)

MFR	MODEL
KW	MAX. STEAM FLOW
TOTAL/START	kg

☐ GAS EXPANDER

APPLICABLE SPEC. (5.1.1.6)

MFR	MODEL
KW	MAX. GAS FLOW
TOTAL/START	KG

☐ GAS FOR EXPANSION TURBINE:

	MIN	MAX	NORMAL
INLET PRESSURE, BAR			
EXHAUST PRESS, BAR			
GAS TEMPERATURE, °C INLET			
GAS TEMPERATURE, °C EXHAUST			
MOLECULAR WEIGHT			

SPEED CONTROL ☐ GOVERNOR ☐ PRESSURE REGULATOR

	YES	NO
INLET CONTROL VALVE FURNISHED		
STAINLESS STEEL PIPING MANIFOLD		
CARBON STEEL FLANGES		
Y-STRAINER W/BREAKOUT FLANGES		
LOW SPEED CAPABILITY		
(FOR COMPRESSOR CLEANING)		
RELIEF VALVE PRESSURE SET POINT		BARg
CASING MATERIAL		
SEAL TYPE		

☐ INTERNAL COMBUSTION ENGINETYPE ☐ SPARK IGNITED ☐ DIESEL

APPLICABLE SPECIFICATION (5.1.1.6)

MANUFACTURER	MODEL
SPEED	RPM
POWER	kW

☐ COMBUSTION GAS TURBINE

APPLICABLE SPECIFICATION (5.1.1.6)

MANUFACTURER	MODEL
SPEED	RPM
POWER	kW

☐ GEARS: SEE SEPARATE API 613 GEAR DATA SHEETS (5.2.1.1)☐ DRIVEN EQUIPMENT, SEE SEPARATE API DATA SHEETS☒ FIRE PROTECTION EQUIPMENT (5.7.3.1) **WATER MIST**TYPE ☐ HALON 1301 ☐ HALON 1211 ☐ CO₂☒ TYPE OF SENSOR ☒ NUMBER OF DETECTORS☒ GAS DETECTOR NUMBER <3> 7 (*)☒ HEAT RISE NUMBER 9 (*)☐ ADDITIONAL LEVELS (5.7.3.2)

(*) BUILDING GAS DETECTOR 14 AND HEAT RISE 15

MOUNTING PLATES (5.3)

TYPE (5.3.1.1) ☐ SOLEPLATE ☒ BASEPLATE☒ SHIM PACK THICKNESS 44 mm (5.3.1.2.9)

BASEPLATE (5.3.2)

☒ FURNISHED BY GAS TURBINE VENDOR (5.3.2.1)
(5.3.2.1)☒ GAS TURBINE ONLY ☐ EXTENDED FOR☐ SUB-SOLEPLATES REQUIRED (5.3.2.7) ☐ DRIP RIM☐ COLUMN MOUNTING (5.3.2.4) (3-POINT) ☐ LEVELING PADS (5.3.2.3)

ENCLOSURES (5.7.5)

☒ ENCLOSURE REQUIRED

REQUIREMENTS (5.7.5.1):

- ☒ ACOUSTICAL
- ☒ WEATHERPROOF
- ☒ SAFETY
- ☒ FIREPROTECTION
- ☒ ADDITIONAL VENTILATION (5.7.5.6.3)

COUPLINGS AND GUARDS (5.2.2)

☐ SEE ATTACHED API-671 DATA SHEETS <1>☒ MANUFACTURER BIBBY ☒ TYPE Dry flexible☒ MODEL 6HS-30-290-47 (2LAH) ☒ GUARD SUPPLIED BY GT VENDOR☒ MAXIMUM OUTSIDE DIAMETER 412 mm☒ HUB WEIGHT 100 kg☒ SPACER LENGTH 657.5 mm ☒ SPACER WEIGHT 100 kg☐ IDLING ADAPTER REQUIRED ☐ SOLO PLATE REQUIRED☒ GUARD SUPPLIED BY GT VENDORTYPE: ☒ FULLY ENCLOSED ☐ SEMI-OPEN ☐ OTHER

LUBRICATING REQUIREMENTS:

☒ NON-LUBE ☐ GREASE ☐ CONT. OIL LUBEQUANTITY PER HUB _____ kg or m³/HR

REMARKS:

3 Revised where shown <3>

N. SOK 0929170 /4

1 REV. WHERE SHOWN <1>

LINGUA-LANG.

PAGINA-SHEET

REV DESCRIZIONE - DESCRIPTION

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GE Oil & Gas

PROJECT ADEGUAMENTO CENTRALE DI SETTALA

CLIENT ENI - STOGIT

COMBUSTION GAS TURBINE (API 616-4TH)
DATA SHEET
S I UNITS

Project No. Unit Type of Doc. Code & Progressive Rev Sheet
0 0 SP 0 9 of 10

ACCESSORIES SUPPLIED BY GAS TURBINE MANUFACTURER

INLET SYSTEM

EXHAUST SYSTEM

☒ AIR FILTER (5.5.4.1)
☐ INERTIAL TYPE SEPARATOR ☒ MEDIA FILTERS
☒ PAD TYPE PREFILTERS <1> ☐ COMBINATION
☐ SELF CLEANING (JET PULSE TYPE) <1>
☐ SINGLE STAGE WITH PROVISION FOR
FUTURE EXTRA STAGES ☐ YES ☐ NO
☐ NORMAL DUST LOADING kg/Nm³/HR
☒ WIND DESIGN VELOCITY REFER TO
D.M. 14/01/2008 (2)
☒ SNOW LOAD <3>
☒ SEISMIC ZONE
LOCATION: ☒ GROUND LEVEL ☐ ELEVATED (5.5.4.6)
☒
<3><1> F9 per EN779 (FILTRI);
G4 per EN779 (pre-filtri)
FILTRATION EFFICIENCY % (5.5.4.3)
☒ MAINTENANCE INTERVAL <3> 12 MONTHS
☒ CLEANING FREQUENCY <3> NA DAYS
☐ IMPLOSION DOOR (5.5.4.5)
☐ EVAPORATIVE COOLER (5.6.1.1) ☒ ANTI-ICING (5.5.3.10)
☐ LIQUID TO AIR EXCHANGER (5.6.2.2)
☒ WALKWAY, LADDERS, HANDRAILS REQUIRED (5.6.1.5)
☐ COMPRESSOR CLEANING SYSTEM, TYPE (5.5.3.9)
☒ SILENCER PLATE ELEMENT MAT'L (5.5.5.1.4) AISI304L
☒ FILTER MFR. LATER MODEL STATIC TYPE
@ 110% RATED AIR FLOW Δ P 40 mm H₂O
25 <1> CLEAN 30 mm H₂O ALARM 120 mm H₂O
26 ☐ COOLER MFR. MODEL Δ P mm H₂O
27 ☐ EXCHANGER MFR (5.6.2.3)
MODEL Δ P mm H₂O
28 ☒ DUCTING GAUGE / MATERIAL 5mm / AISI304L
30 ☒ EXPANSION JOINT MFR NP TYPE <1> TEXTILE
31 ☒ SILENCER MFR NP Δ P <1> 35 mm H₂O
32 ☐ MANOMETER MFR MODEL
RANGE mm H₂O
34 ☒ SYSTEM SITE RATED PRESSURE DROP 102 Expected mm H₂O
35 @ 110% RATED AIR FLOW
36 REMARKS: Note 1: Valore limite di emissione in atmosfera di NO_x (riferito
37 al 15% di O₂ nei fumi secchi) valido tra il 50% e il 100% del carico, da -13.8°C a
38 +36.1°C, in condizione stazionarie / minore o uguale a 30 mg/Nm³ (15 ppm) / +0%
39 Note 2: Valore limite di emissione in atmosfera di CO (riferito al 15% di O₂ nei fumi
40 secchi) valido tra il 75% e il 100% del carico, da -13.8°C a +36.1°C, in condizione
41 stazionarie / minore o uguale a 40 mg/Nm³ / +0%
42 Valore limite di emissione in atmosfera di CO (riferito al 15% di O₂ nei fumi secchi) valido tra il 50% e il 75% del carico, da -13.8°C a +36.1°C, in condizione
43 stazionarie / minore o uguale a 60 mg/Nm³ / +0%
43 <3>(2) Vento- Zona1; distanza dal mare=120 Km, categoria esposizione=II, velocita' vento=25s(-1); Sisma-ag=0.1025 g ms(-2), F0=2.640, T0=0.300 s, Fv=1.141

☐ EXTENT OF FURNISHED INSULATION (SEE SKETCH) (5.7.1.2)
☐ (RELIEF) (DIVERSION) VALVE (5.5.6.8)
☐ EXHAUST HEAT RECOVERY SYSTEM (5.5.3.1)
☐ EMISSION CONTROL SYSTEM (5.5.3.1)
☒ EXHAUST SILENCER PLATE ELEMENT MATERIAL (5.5.5.2.3)
CARBON STEEL
☒ EMISSIONS SAMPLING SYSTEM (5.5.6.10)
☒ EXPANSION JOINT MFR NP TYPE Tex. Compens.
☒ DUCTING GAUGE/MATERIAL <1>6 mm / Carbon steel
☒ SILENCER MFR NUOVO PIGNONE Δ P 80 mm H₂O
☐ HEAT RECOVERY DEVICE
MFR TYPE Δ P mm H₂O
STEAM GEN: PRESS BARg TEMP °C
RATE kg/HR
☐ MANOMETER MFR MODEL RANGE mm H₂O
☐ ATMOSPHERIC RELIEF DEVICE (5.5.6.8)
TYPE MFR LOCATION
☒ SYSTEM SITE RATED PRESSURE DROP 102 mm H₂O

ATMOSPHERIC EMISSIONS (SEE NOTE 1)

☐ EMISSION SUPPRESSION SYSTEM REQUIRED (5.8.4.1)
☐ NO_x REQUIREMENTS (5.5.3.1.1)
☒ NO_x EMITTED See note 1
EMISSIONS REDUCTION METHOD (IF REQUIRED)(5.8.4.2)
☒ WATER INJECTION (5.8.4.4) ☒ SCR
☒ STEAM (5.8.4.4) ☐ DRY COMBUSTOR
☒ OTHER DLE
☐ SO_x REQUIREMENTS
☐ SULFUR CONTENT OF FUEL
☐ SO_x EMITTED (BASED ON STATED SULFUR CONTENT)
☐ CO REQUIREMENTS
☒ CO EMITTED See note 2
☐ PARTICULATE REQUIREMENTS
☐ PARTICULATE EMITTED
☐ UNBURNED HC REQUIREMENTS
☐ UNBURNED HC EMITTED
APPLICABLE EMISSION CODES OR REGULATIONS
☐ EPA - TITLE 40 - CFR ☐ OTHERS

SPECIALIZED INSTRUMENTS

45 TACHOMETERS: (5.4.7.2.2)
46 TYPE ☐ ELECTRICAL ☐ ELECTRONIC
47 ☐ ANALOG ☒ DIGITAL
48 ☒ MANUFACTURER GE
49 ☐ OIL FILLED PRESSURE GAUGES (5.4.7.6)

SWITCHES: (5.4.4.8.2)
CIRCUIT SHALL
☐ ENERGIZE ☒ DEENERGIZE TO ALARM
☐ ENERGIZE ☒ DEENERGIZE TO SHUTDOWN
ENCLOSURES
☐ EXPLOSION PROOF ☐ WEATHER PROOF

3	Revised where shown <3>	N. SOK 0929170 /4
1	REV. WHERE SHOWN <1>	LINGUA-LANG. PAGINA-SHEET
REV	DESCRIZIONE - DESCRIPTION	A 10 / 11

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		CLIENT <u>ENI - STOGIT</u>	
COMBUSTION GAS TURBINE (API 616-4TH) DATA SHEET S I UNITS		Project No. <u>0</u>	Unit <u>0</u>
		Type of Doc. <u>SP</u>	Code & Progressive <u>0</u>
		Rev <u>10</u> of <u>10</u>	Sheet <u>10</u>

1 SHOP INSPECTION AND TESTS: (6.1.1) (1) 2 SHOP INSPECTION (6.1.2) 3 CLEANLINESS (6.2.3.3) 4 HYDROSTATIC (6.3.2) (*) 5 MECHANICAL RUN (6.3.3) 6 ☐ CONTRACT COUPLING 7 ☐ IDLING ADAPTOR(S) 8 ☐ CONTRACT PROBES 9 ☐ SHOP PROBES 10 VIBRATION PLOTS(6.3.3.3.4) 11 TAPE RECORD VIB DATA (6.3.3.3.6) 12 PERFORMANCE TEST (6.3.4.1) 13 COMPLETE UNIT TEST (6.3.4.2) 14 PACKAGE TEST(6.3.4.2.1) 15 LOAD GEAR TEST (6.3.4.3) 16 SOUND LEVEL TEST (6.3.4.4) 17 AUXILIARY EQUIPMENT (6.3.4.5) 18 POST TEST INSPECTION (6.3.4.6) 19 HYDRAULIC COUPLING INSP (6.3.4.7) 20 GOVERNOR RESPONSE TEST (6.3.4.8) 21 SPARE PARTS (6.3.4.9) 22 FIRE PROTECTION (6.3.4.10) 23 OTHER (6.3.4.11) REFER TO QUALITY CONTROL PLAN SOM5086774 (012000DMQA12 806)	LUBRICATION SYSTEMS (4.9) ☐ SEE API 614 ☒ LUBE OIL VISCOSITY (4.9.8) ISO GRADE <u>Miner. ISO VG32</u> COMMON TO ☐ GAS GENERATOR/SINGLE SHAFT TURBINE ☒ POWER TURBINE ☐ LOAD GEAR ☒ DRIVEN EQUIPMENT ☐ AUXILIARIES ☐ (COMBINED) (SEPARATE) LUBE/SEAL SYSTEM (4.9.5) ☒ SYSTEM DESIGNED FOR SYNTHETIC LUBRICANT (4.9.2) LUBE SPECIFICATION (G.G.MIL L 23699) COMMON TO ☒ GAS GENERATOR ☐ POWER TURBINE ☐ LOAD GEAR ☐ DRIVEN EQUIPMENT ☐ AUXILIARIES <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th></th> <th>FLOW m³/HR</th> <th>PRESSURE BARg</th> <th>HEAT LOAD Kw</th> </tr> </thead> <tbody> <tr> <td>☒ OIL REQUIREMENTS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>GG OR SS TURBINE</td> <td>4 SINT.</td> <td>5,5</td> <td>400</td> </tr> <tr> <td>DRIVEN EQUIPMENT</td> <td>8.25</td> <td>1.7</td> <td>69.2</td> </tr> <tr> <td>GEAR</td> <td>39.96</td> <td>1.7</td> <td>444</td> </tr> <tr> <td>COUPLINGS</td> <td>NON LUBE</td> <td>NON LUBE</td> <td></td> </tr> <tr> <td>POWER TURBINE</td> <td>18 MINER.</td> <td>1.7</td> <td>130</td> </tr> <tr> <td>TOTAL</td> <td>66.81</td> <td></td> <td>643.2</td> </tr> </tbody> </table> MOUNTING ARRANGEMENT ☐ CONSOLE ☐ COLUMN ☐ BASEPLATE		FLOW m³/HR	PRESSURE BARg	HEAT LOAD Kw	☒ OIL REQUIREMENTS				GG OR SS TURBINE	4 SINT.	5,5	400	DRIVEN EQUIPMENT	8.25	1.7	69.2	GEAR	39.96	1.7	444	COUPLINGS	NON LUBE	NON LUBE		POWER TURBINE	18 MINER.	1.7	130	TOTAL	66.81		643.2																												
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