



Exploration & Production

GENERAL SPECIFICATION

ROTATING MACHINERY

DS MEC 144

Fire Pump Sets Data sheets

00	10/04	First issue
Rev.	Date	Notes



TO BE COMPLETED BY PURCHASER				
1	SITE AND INSTALLATION DATA	UNITS	REMARKS	Rev
2	Altitude	m		
3	Barometer	m bar		
4	Ambient Temperature (Norm./Min./Max)	°C		
5	Design Temperature	°C		
6	Humidity at design Temperature	%		
7	Wind speed	m/s		
8	Atmospheric Air (Dust/Fumes)			
9	Corrosion by			
10				
11	Location : - Indoor/Outdoor			
12	Heated/Unheated			
13	Under roof/Partial Sides			
14				
15	Area classification			
16				
17				
18				
19				
20				
21				
22	AVAILABLE UTILITIES			
23	Cooling water :			
24	Pressure	bar a		
25	Available pressure drop	bar		
26	Temperature	°C		
27	Temperature change	°C		
28	Steam :			
29	Pressure	bar a		
30	Temperature	°C		
31	Instrument Air :			
32	Pressure	bar a		
33	Temperature	°C		
34	Dew point			
35	Electricity supply	AC/DC	Volts Phase Hz	
36		DC		
37				
38	Fuel characteristics :			
39	Fuel oil classification			
40	Viscosity	cP		
41	Temperature	°C		
42	Operating duration	hrs		
43	Impurities	% weight		
44				
45				
46				
47				
48				
49				



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TO BE COMPLETED BY VENDOR

1	OPERATING CONDITIONS	UNITS	REMARKS	Rev
2	Diesel Engine Manufacturer & type			
3	ISO Power (ISO 3046)	kW		
4	ISO Speed	rpm		
5				
6	Site continuous Power	kW		
7	Site continuous Speed	rpm		
8	Overload site Power	kW		
9	Overload speed	rpm		
10	Overload duration			
11				
12	Direction of rotation (View from Coupling)	CW/CCW		
13	Speed range	(+/-) % rpm		
14	Idle speed	rpm		
15	Loading time	s		
16				
17	PERFORMANCES			
18	% of Maximum continuous site power			
19	Fuel specific consumption	g/kWh		
20	Tolerance	%		
21	Speed	rpm		
22	Load acceptance Rating	% one step		
23	CHARACTERISTICS			
24	Cycle : 2 stroke/4 stroke			
25	Number of cylinders			
26	Inline / V form			
27	Bore / Stroke	mm		
28	Capacity	l		
29	BMEP (Rated)	bar		
30	Piston speed	m/s @ rpm		
31	Cooling system : Water		Required	
32	Turbocharger :			
33	Single or series			
34	Inter cooler	CA or CW		
35				
36				
37	Nox emission	g/kWh		
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				



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TO BE COMPLETED BY VENDOR				
1		UNITS	REMARKS	Rev
2	STARTING SYSTEM			
3	Air :			
4	Number of tanks			
5	Pressure	bar		
6	Capacity	m3		
7	N° starts without refilling			
8				
9	Electrical :			
10	N° of batteries		ONE / TWO	
11	Type			
12	Total capacity	Ah		
13	Starting circuit			
14	Starting motor			
15	Hydraulic : - Accumulator / Motor			
16	N° of starts per 5 sec cranks			
17	N° of Accumulators			
18	BARRING SYSTEM			
19	Manual / Electrical / Hydraulic if necessary			
20				
21	LUBRICATION			
22	Dry sump			
23	System : - Pressure	bar		
24	Oil quantity	l		
25	Oil consumption	g/kWh		
26	Pumps	Main/Aux		
27				
28	HEATER			
29	Water heater	YES/NO		
30	Power	kW		
31	Lubricating oil heater	YES/NO		
32	Power	kW		
33	Voltage	V		
34				
35	Oil filter : -		SINGLE / DUPLEX	
36	Change while running		Not required	
37				
38				
39				
40				
41				
42	Vendor to advise whether special requirements such as pre-lub are necessary			
43				
44	RIGHT ANGLE GEAR DRIVE			
45	Manufacturer and type			
46	Reduction ratio			
47	Exchanger materials			
48				
49				



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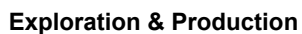
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TO BE COMPLETED BY VENDOR				
1		UNITS	REMARKS	Rev
2	INLET SYSTEM			
3	Filter : -			
4	Type	Wet or Dry	DRY	
5	Number			
6	Air Cut-Off system			
7	Flap on engine air intake pipe	REQ'D		
8				
9	EXHAUST SYSTEM			
10	Engine pipe outlet			
11	Spark arrestor			
12	Silencer		dBA 1 mm from tail pipe	
13	Expansion joint			
14	Exhaust manifold	Water cooled	Required	
15	OIL BREATHER			
16	Located out of the enclosure		Required	
17				
18	ENGINE COOLING SYSTEM			
19	Using pumped sea water		Required	
20	Exchanger material			
21	Complying with STDM 3465.TUY.P		Required	
22				
23				
24	FUEL			
25	Autonomy required at 100 %	hrs	12 hours Required	
26	Fuel tank capacity	l		
27				
28				
29	Max static head above fuel inlet		Vendor to advise	
30	Cleanable while running / Self Cleaning			
31	Changeover while running		Required	
32				
33	HEAT EMISSIONS		For complete package	
34	To cooling system	kW		
35	to Ambient	kW		
36				
37	Weight and Dimensions	kg		
38	Heaviest part for erection	kg		
39	Heaviest part for maintenance	kg		
40	Weight of engine only	kg		
41	Weight of set	kg		
42	Weight of control panel	kg		
43	Height under hook	m		
44	Dimensions for maintenance	m		
45	Painting (Manufacturer Std for off shore environment)		Submitted to Purchaser for approval.	
46	Standard / Other			
47	Inspection and Testing			
48	Manufacturer Standard			
49	Other			

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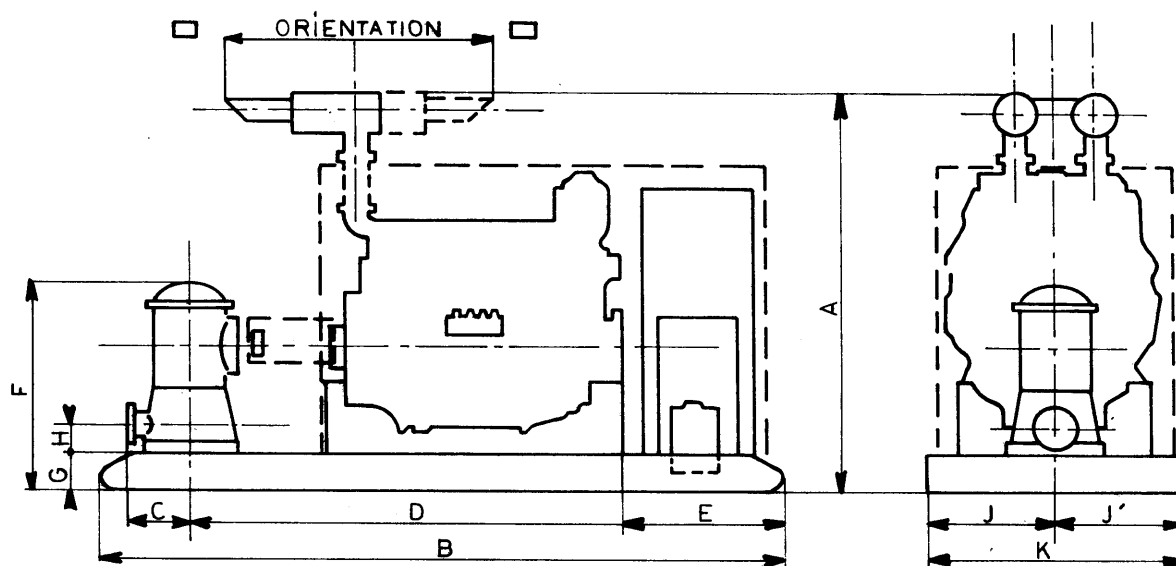
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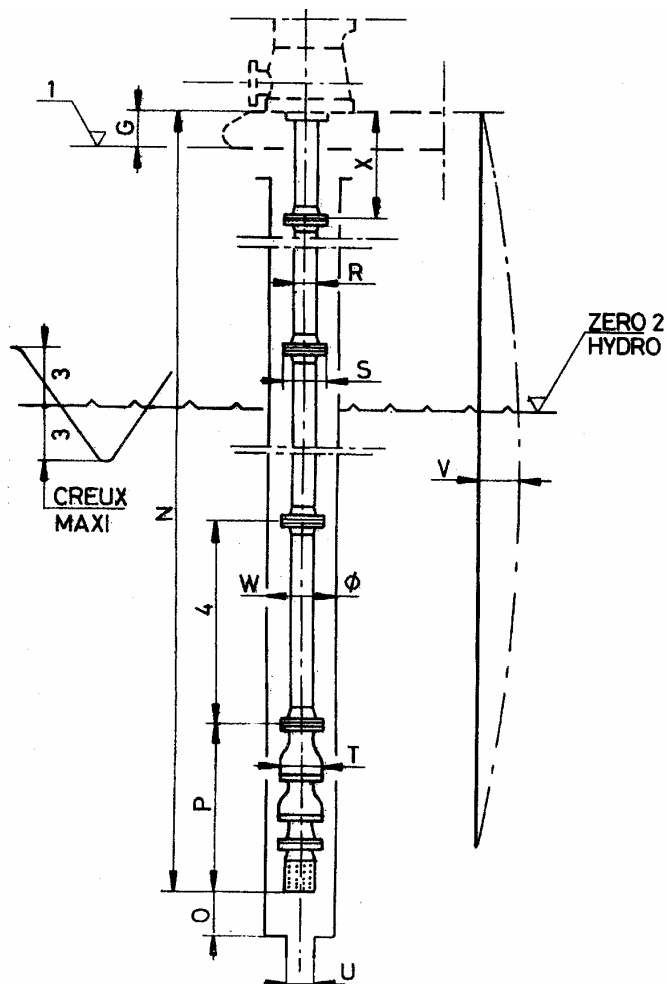
DIMENSIONS



TO BE COMPLETED BY SUPPLIER			
REFERENC	DIMENSIONS	REFERENC	
E		E	
A		J	
B		J'	
C		K	
D			
E			
F			
G			
H			

Notes :

PUMP AND DISCHARGE COLUMN



PURCHASER DATA	
Rep.	Dimension or height
1	EL :
2	EL :
3	
4	

TO BE COMPLETED BY SUPPLIER			
REFERENCE	DIMENSIONS	REFERENCE	
G		T	
N		U	
O		V	
P		W	
R		X	
S			
NUMBER OF ELEMENTS OF THE COLUMN :			