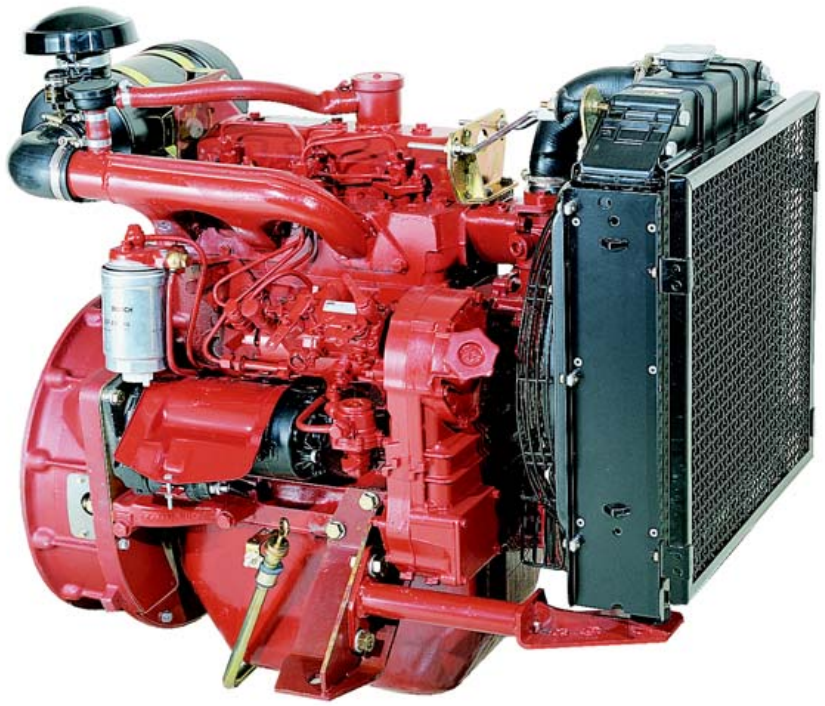
GENSET ENGINE

8031i06



PERFORMANCES

RATINGS		50 Hz		60 Hz	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated output	kW	29	32	33	36
Main piston speed	m/s	5.8		6.9	
BMEP	kg/cm^2	8.1	8.9	7.7	8.4

PRIME POWER
Applicable for supplying power in lieu of commercially purchased power. Prime power is the maximum power available at variable load for an unlimited running time.
A 10% overload capacity is available for governing purposes only.

STAND-BY POWER
Applicable for supplying emergency power for the duration of the utility power outage.
No overload capability is available for this rating.

TECHNICAL DATA

Engine model		8031i06
Diesel 4 stroke - Injection type		direct
N° of cylinders		3 in line
Total displacement	L	2.9
Bore x Stroke	mm	104 x 115
Compression ratio		17 : 1
Aspiration		natural

Cooling system		liquid (water + 50% Paraflu11)
Lube oil specifications		ACEA E2-96 MIL-L-2104E
Lube oil consumption		~ 0.3% of fuel consumption
Fuel specifications		EN 590
Speed governor		mechanical (G2 class)
Engine rotating mass moment of inertia	$kg.m^2$	0.942
Dry weight (standard configuration)	kg	~ 370

IVECO
ENGINE BUSINESS UNIT

TECHNICAL DATA

	RPM	1500	1800
Engine rotation (viewed facing flywheel)		CCW	
Flywheel housing / Flywheel		SAE3 /11" ½	
Cyclic irregularity - Prime		0.0292	0.0196
Fuel consumption at : 75% load	l/h	4.9	5.6
100% load	l/h	6.5	7.6

AIR INDUCTION SYSTEM

Intake air flow.	m^3/h	120	145
Maximum suggested intake restriction :			
with clean air filter	mmH_2O	250	
with dirty air filter	mmH_2O	500	

INJECTION

Injection system		mechanical
Max speed drop steady conditions		4%
Max fuel feed pump suction head	m	0.8

EXHAUST SYSTEM

Exhaust gas flow	kg/h	145	175
Max exhaust temperature at full load	°C	530	530
Max allowable backpressure	mmH_2O	1500	

COOLING SYSTEM

Coolant capacity : engine only	liters	~ 5	
engine plus std. radiator	liters	~ 12	
Cooling water flow rate	l/min	89	110
Max allowable pressure drop on external water circuit	mmH_2O	0.6	1
Max head of cooling radiator	m	3	
Pusher fan air flow	m^3/s	0.6	1
Pusher fan head (static)	mmH_2O	30	
Pusher fan absorbed power	kW	0.37	0.55
Max engine outlet water temperature (Alarm)	°C	100	
ATB (without canopy) - nominal rating	°C	50	

LUBRICATION SYSTEM

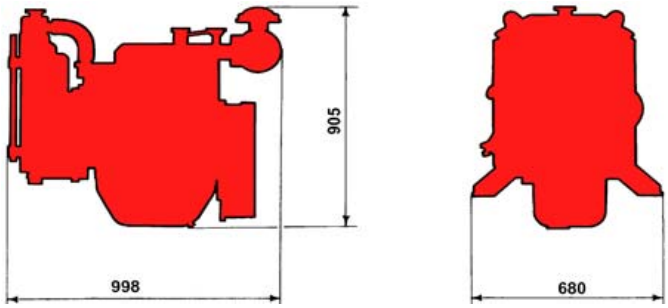
Lube oil total system incl. sump, filters etc.	kg (l)	~ 8 (8.8)
Oil capacity of standard sump :		
at min. level	kg (l)	~ 5 (5.5)
at max level	kg (l)	~ 7 (7.7)
Maximum oil temperature	°C	125
Minimum oil pressure at rated speed	kg/cm^2	2

		RPM 1500	1800
HEAT REJECTION (at full load conditions)			
Engine to coolant (water + oil)	kcal/kWh	595	615
Engine to exhaust	kcal/kWh	640	635
Radiated to ambient	kcal/kWh	185	160

ELECTRIC STARTING SYSTEM

Cranking motor rating	kW	3
Auxiliary voltage	Vcc	12
Starting batteries :		
Recommended capacity	Ah	100
Discharge current	A	650

OVERALL DIMENSIONS



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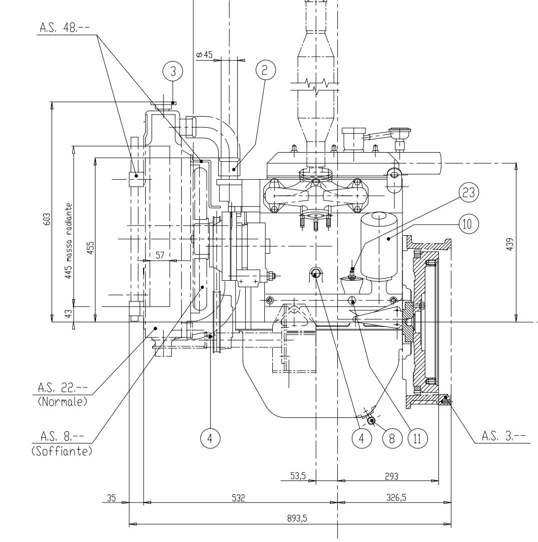
Specifications subject to change without notice
Illustrations may include optional equipment.

Local distributor

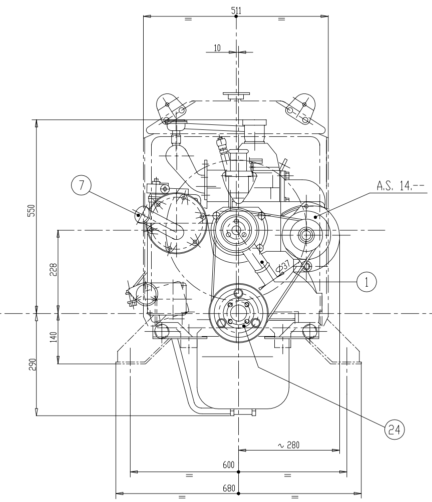
Iveco Aifo and 2H Energy are companies of the Iveco-Engine Business Unit.

Iveco Aifo S.p.A.
V.le Dell'Industria, 15/17
20010 Pregnana Milanese MI - Italy
Phone +39 02 935101 - Fax +39 02 93590029
Internet : http://www.iveco.com

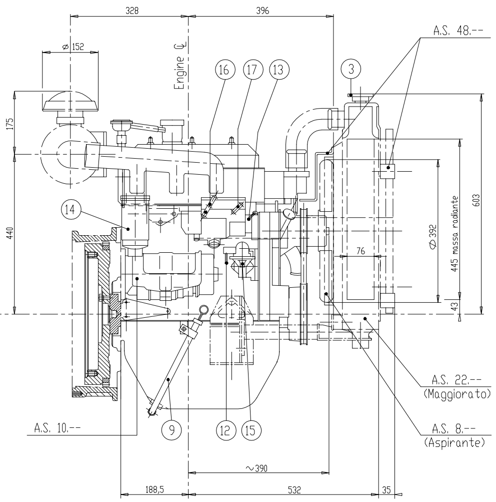
VISTA LATO SINISTRO
LEFT SIDE VIEW



VISTA ANTERIORE
FRONT VIEW



VISTA LATO DESTRO
RIGHT SIDE VIEW



	N°	DESCRIZIONE	DESCRIPTION
ACQUA WATER	1	ENTRATA ACQUA	WATER INLET
	2	USCITA ACQUA	WATER OUTLET
	3	TAPPO INTRODUZIONE ACQUA	WATER FILLER CAP
	4	SCARICO ACQUA	WATER DRAIN
	5	TAPPO SFIATO MANUALE	MANUAL AIR DRAIN PLUG
	6	SEDE TERMOMETRO ACQUA (M16x1,5)	WATER TEMPERATURE SENDER TAP(M16x1,5)
OLIO OIL	7	TAPPO INTRODUZIONE OLIO	OIL FILLER PLUG CAP
	8	TAPPO SCARICO OLIO	OIL DRAIN PLUG
	9	ASTA LIVELLO OLIO	OIL DIPSTICK
	10	FILTRO OLIO	OIL FILTER
	11	SEDE SEGNALATORE PRESSIONE OLIO (M12x1,5)	OIL PRESSURE SENDER TAP (M12x1,5)
COMBUSTIBILE FUEL	12	ENTRATA COMBUSTIBILE	FUEL INLET
	13	USCITA COMBUSTIBILE	FUEL OUTLET
	14	FILTRO COMBUSTIBILE	FUEL FILTER
	15	LEVA INNESCO POMPA ALIMENTAZIONE	HAND OPERATED FUEL LIFT PUMP LEVER
	16	LEVA COMANDO ACCELLERATORE	THROTTLE LEVER
	17	LEVA COMANDO STOP	STOP LEVER
	18		
	19		
GAS SCAR. EXHAUST	20	USCITA COLLETTORE GAS DI SCARICO	EXHAUST GAS MANIFOLD OUTLET
	21	CONTROFLANGIA USCITA GAS DI SCARICO	EXHAUST COUNTERFLANGE
	22		
VARIE OTHERS	23	PRESA CRONOTACHIMETRO	SPEED INDICATOR TAP
	24	ATTACCO PRESA DI FORZA ALBERO MOTORE	FORWARD POWER TAKE-OFF
	25		
	26		
	27		
	28		
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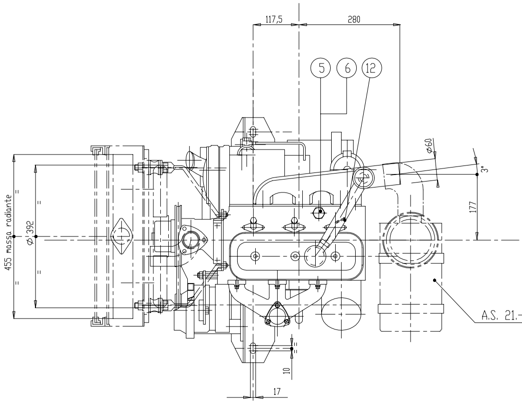
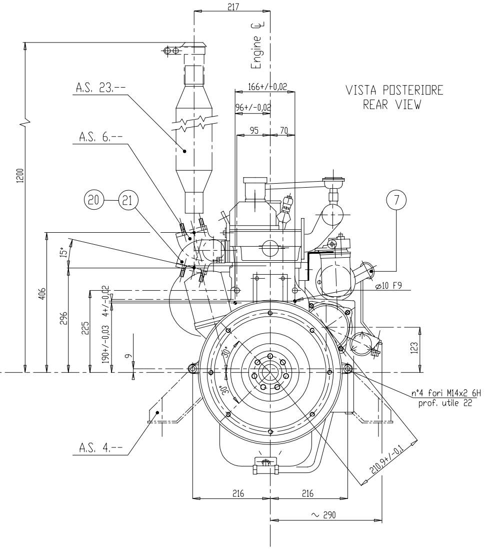
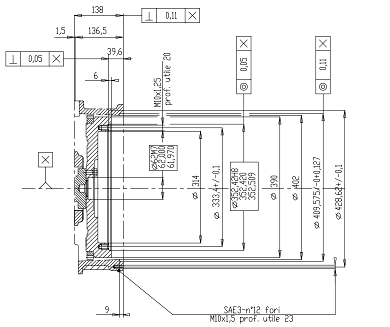
	30		

VISTA IN PIANTA
TOP VIEW

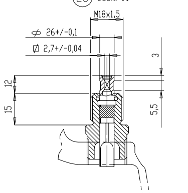


VISTA POSTERIORE
REAR VIEW

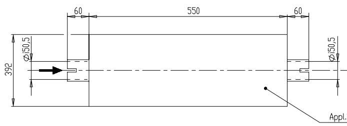




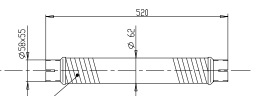
PRESA CRONOTACHIMETRO
SPEED INDICATOR TAP
(23) Scala 1:1



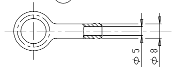
SILENZIATORE SCIOLTO
MUFFLER (LOOSE)



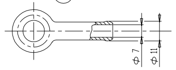
FLESSIBILE
HOSE



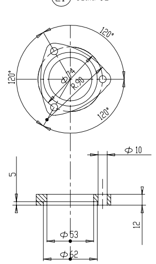
USCITA COMBUSTIBILE
FUEL OUTLET
(13) Scala 1:1



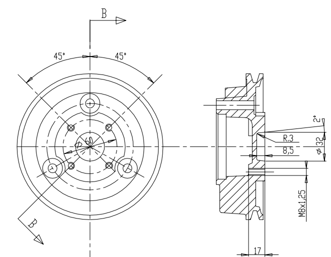
ENTRATA COMBUSTIBILE
FUEL INLET
(12) Scala 1:1



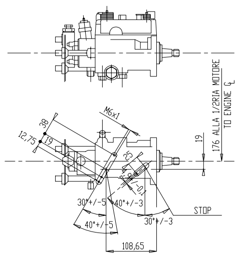
CONTROFLANGIA USCITA GAS DI SCARICO
EXHAUST COUNTERFLANGE
(21) Scala 1:2



ATTACCO PRESA DI FORZA SULL'ALBERO MOTORE
FORWARD POWER TAKE-OFF
(24) Scala 1:2



POMPA INIEZIONE
INJECTION PUMP



A.S.= Optionals

CAD DRAWING
HANDLING ON CAD SYSTEM ONLY

Modifiche: a) Eseguito grafico era Sd 8024415 (De Nicolo)
(Alterations):

Tolleranze ed altre prescrizioni generali: IVECO Standard 10-2999	Allgemeintoleranzen und sostige Vorschriften: IVECO Standard 10-2999	General tolerances and other specifications: IVECO Standard 10-2999

Q.ta' (Qty.) --	Peso (Weight) --	Scala (Scale) 1:5 (1:2)	Dis. (Drawn) De Nicolo		Data (Date) 20.10.97
Cap. (P.S.) --	N.P. (P.S.)		Cont. (Checked) Marnati		Sost. (Supersedes)
Mat. (Mat.) --		Classe (Std.Sh) --	Visto (Approved) Burgazzi		Foglio (Sheet)
Tratt. (Heat Treat.) --		Tab. (Type) --			
SCHEMA INGOMBRO MOTORE			Tipo (Type)	8031I06.05	IVECO aifo
ENGINE LAYOUT			Cod.Tec. (File No)	54-9703 A0	
			N° (No)	8024415	UFFICIO PROGETTI