

AIRCRAFT

LOAD DATA SHEET - PAGE 1 OF 3 - AEROPLANE WEIGHT

Aeroplane Type:..... DIAMOND DA20-C1

Registration Marking:..... **VH-DIU** Serial No: C0531

ISSUE:.... ONE DATE:..... 15.Jul.09 EXPIRY:..... INDEFINITE


AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:

ITEM	WEIGHT (Kg)	ARM (mm aft of datum)	MOMENT (Kg.mm)	CABIN CONFIGURATION
EMPTY	558.8	213	118947	TWO SEATS
STANDARD CABIN CONFIGURATION				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE PILOTS HANDBOOK SECTION SIX				
	(lb)	(in)	(in.lb)	
EMPTY	1232.0	8.4	10324	TWO SEATS

NOTE: 1.The above empty weights include:-

EMPTY - unusable fuel and full oil

2.The Datum used above is the W.L.E.


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LOAD DATA SHEET - PAGE 2 OF 3 - EQUIPMENT LIST

This list details the items included in the empty weight shown in Page 1.

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ENGINES/PROPELLERS

Continental IO-240..... 1
Sensenich W69EK7-63G. 1

COMPASSES

Magnetic..... 1
Remote Indicating..... 1*

THERMOMETERS

Engine Temp(Cyl.Hd.)..... 1
Oil Temp..... 1
Outside Air Temp..... Davtron

INDICATORS

Airspeed..... 1*
Airspeed (Standby)..... 1
Directional Indicator (HSI) 1*
Directional Gyro..... 0
Exhaust Gas Temp..... 1
Flight Hour..... 1
Attitude Indicator..... 1*
Gyro Horizon (Standby).... 1
Stall Warning..... 1
Tacho Recording..... 1
Trim Indicator..... 1
Turn Co-ordinator..... 0
Wing Flap Position..... Lights
Vertical Speed..... 1*
Vertical Speed (Standby). 0
Altitude Alerter..... 1*

RADIO EQUIPMENT (TYPE)

ADF..... 0
Speakers..... 1
G/slope..... PART NAVS
Headsets..... 1
GPS/Com ... GARMIN GNS430
VHF Com ... GARMIN SL-40
Audio/Mkr.... GARMIN GMA340
Intercom..... PART AUDIO
Txponder.... GARMIN GTX327
Encoder..... TRANSCAL SSD-120
EFIS..... ASPEN EFD1000
AHRs..... PART EFIS

INSTRUMENTS

Altimeters..... 1*
Altimeters (Standby)..... 1
Ammeters..... 1
Voltmeters..... 1
Clocks..... Davtron

GAUGES

Engine Oil Pressure..... 1
Fuel Pressure..... 1
Fuel Contents..... 1
Manifold Pressure..... 0
Suction..... 1

LIGHTS

White Strobes (tips)..... 2
Panel/Cabin Flood..... 2
Landing/Taxi..... 2
Map Reading..... 1
Navigation..... 4

RESTRAINT EQUIPMENT

Full Harness/Inertia..... 2

ELECTRICAL EQUIPMENT

Alternators..... 1
Batteries..... 1
Batteries (Standby)..... 1
Starters..... 1
External Power..... 1

MISCELLANEOUS EQUIPMENT

Dual Controls..... 1
Fire Ext.(Portable)..... 1
Heated Pitots..... 0
Alternate Static..... 0
Cabin Heater (muff)..... 1
Vac Pump..... 1
Electric Trim..... 1
Wheel Fairings..... 3

DISPOSABLE LOAD LIST

Torch..... 1
V.S.Beacon/E.L.T..... Artex ME406

***ITEMS MARKED ARE PART OF ASPEN EFD1000**

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LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

Aeroplane Type:.....DIAMOND DA20-C1

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The following is valid only for the Empty Weight specified in Page 1 of 3 Aeroplane Weight dated.. 15.07.09 and is based on calculations using Occupant Weights of 60 to 90 Kg each.

1. OCCUPANTS:-

Maximum Total Load on Seats is 100 Kg.

OR

With TWO Occupants, **Minumim** Baggage is 8 Kg

2. BAGGAGE COMPARTMENT LIMITATIONS:-

<u>Number of Occupants</u>	<u>Maximum Baggage</u>
One(pilot)	20 Kg
Two	20 Kg

3. MAIN FUEL:-

Fuel is limited only by All Up Weight

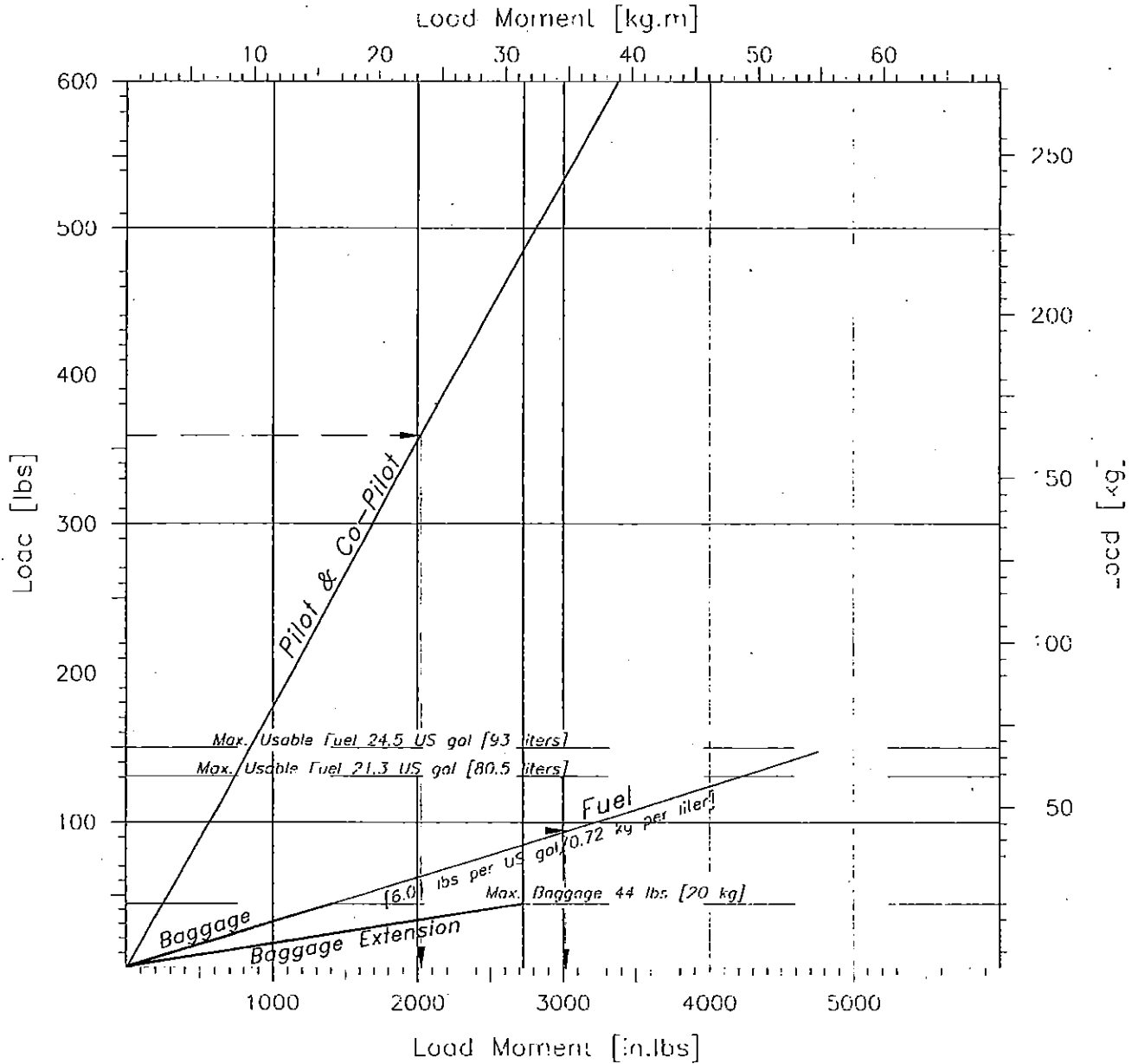
MAXIMUM TAKE-OFF WEIGHT.....800 Kg

MAXIMUM LANDING WEIGHT.....800 Kg

NOTE: If a full Loading Check is required, refer to Loading Instructions and Charts in the Pilots Handbook Section Six.

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Figure 6.6: Weight & Balance Diagram



Example: Pilot and Passenger: 359 lbs. (163 kg)
 Fuel 14.0 US gal. / 52.9 liters: 93 lbs. (42 kg)
 (6.01 lbs. per US gal./0.72 kg per liter)

Result: Moment of Pilot and Passenger: 2021 in.lbs. (24.4 kgm)
 Moment of Fuel: 3017 in.lbs. (34.8 kgm)

Figure 6.7: Calculation of Loading Condition

Calculation of the Load Limits	DA 20 (Example)		Your DA 20	
	Weight [lbs] (Weight [kg])	Moment [in.lbs] ([kgm])	Weight [lbs] (Weight [kg])	Moment [in.lbs] ([kgm])
1. Empty Weight (use the data for your airplane recorded in the equipment list, including unusable fuel and lubricant).	1153 (523)	12562 (144.740)		
2. Pilot and Passenger: Lever Arm: 0.143 m (5.63 in)	359 (163)	2021 (23.286)		
3. Baggage: Max. Wt. 44lbs (20kg) Lever Arm: 0.824 m (32.44 in)	-- (--)	-- (--)		
4. Baggage Compartment Extension: Max. Wt. 44lbs (20kg) Lever Arm: 1.575 m (62.0 in)	-- (--)	-- (--)		
5. * Combined Baggage Max. Wt. 44lbs (20kg) Lever Arm: 1.20 m (47.22 in)	-- (--)	-- (--)		
6. Total Weight and Total Moment with empty fuel tank (sum of 1. - 3.)	1512 (686)	14583 (168.026)		
7. Usable Fuel Load (6.01 lbs. per US gal./0.72 kg per liter) Lever Arm (32.44 in) (0.824 m)	93 (42)	3017 (34.762)		
8. Total Weight and Total Moment, taking fuel into account (sum of 6. and 7.)	1605 (728)	17600 (202.788)		
9. Find the values for the total weight (1512 lbs. and 1605 lbs.) and the total moment (14583 in lbs. and 17600 in.lbs.) in the center of gravity diagram. Since they are within the limitation range, the loading is permissible.				

* Combined Baggage: For convenience of calculation use this line if baggage is to be located in both the baggage compartment and the baggage extension. The combined total of the baggage must not exceed 44 lbs (20 kg).