QCX Auro CF105 P-Perf-105

Classification cancelled / Changed to C. C. C. By Suthority of AND Extract P/Perf/105

SDAND ARD AIRCRAFT CHARACTERISTICS
Signat WATH 2 JT 4A-25 ENGINES PROJECT SEPTEMBER APPOINTMENT APP



A. V. ROE CANADA LIMITED

MALTON . ONTARIO



TECHNICAL DEPARTMENT (Aircraft)

Classification cancelled / Changed to UNCLASS REPORT No _ P/Perf/105 By authority of ANES AIRCRAFT: FILE NO: Unit / Rank / Appointment...

WITH 2 JT 4A-25 ENGINES

C-105 STANDARD AIRCRAFT CHARACTERISTICS

TITLE:



PREPARED BY D. Pon

DATE Sept. 155

CHECKED BY

SUPERVISED BY

APPROVED BY

REVISED BY 15799 6



Performance Under N.A.C.A. Standard Atmospheric Conditions

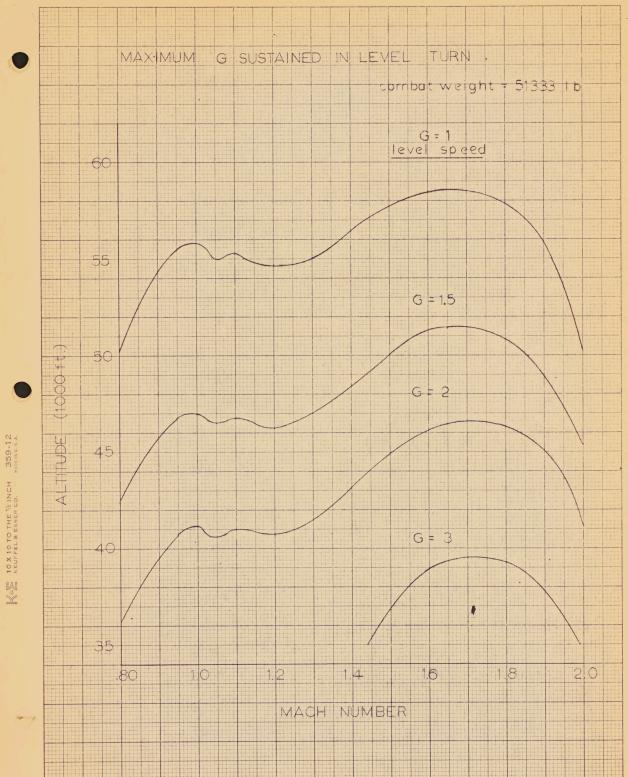
To R.C.A.F. Specification AIR 7-4

WE		

	Take-Off Weight with 15,298 Lb. Fuel (77.1% Max.) Decentional Weight Empty Combat Weight (1/2 Fuel) Landing Weight (With Reserve Fuel + Missiles) Wing Loading at Normal Take-Off Weight Power Loading at Normal Take-Off Weight Lb. /Lb. Thrust	58,982 43,684 51,333 44,200 47.0 1.61
SPEEI		
	True Air Speed In Level Flight At Sea Level at Combat Weight Maximum Thrust	* 755 640
	True Air Speed in Level Flight At 50,000 Ft. at Combat Weight	
	Maximum Thrust Kts.	1,147
CEILI	ING .	
	Combat Ceiling at Combat Weight, Rate of Climb = 500 P.P.M. Maximum Thrust at 1.5 M.N Ft.	57,200
RATE	OF CLIMB	
	Steady Rate of Climb at Sea Level, Combat Weight Maximum Thrust at M.N. = .92	
	Steady Rate of Climb at 50,000 Ft., Combat Weight Maximum Thrust at M.N. = 1.5	7,700
TIME	TO HEIGHT	
	Time to 50,000 Ft. M.N. = 1.5 from Engine Start at Take-Off Weight = 58,982 Maximum Thrust	4.4
MANC	DEUVRABILITY	
	Combat Load Factor at Combat Weight Maximum Thrust at M.N. = 1.50 at 50,000 Ft.	1.50

★ Placard Speed = 720 Kts.

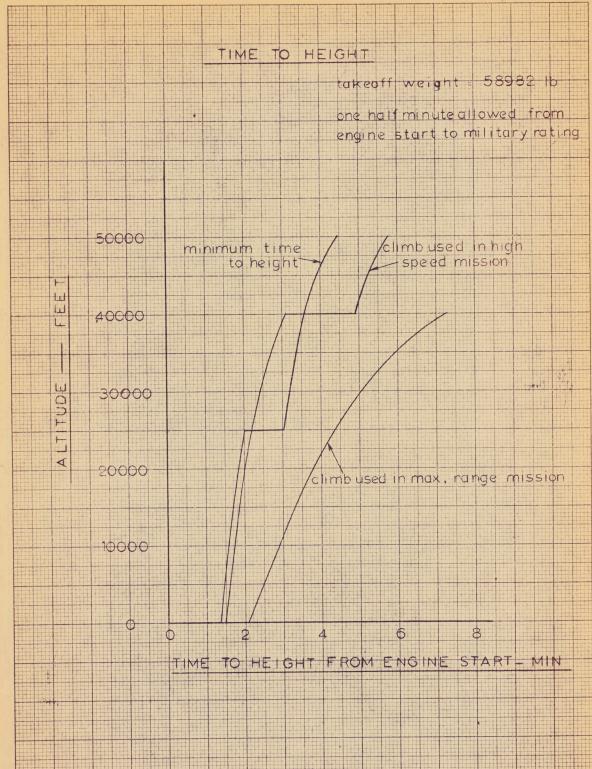
TAKE-OFF DISTANCE Take-Off Distance over 50 Ft. Obstacle at Sea Level Take-Off Weight = 58,982 Lb. 3,400 Maximum Thrust Ft. Military Thrust Ft. Maximum Thrust, Hot Day Ft. 6,700 4,600 LANDING DISTANCE Landing Distance over 50 Ft. Obstacle at Sea Level at Combat Weight Ft. 5,300 STALLING SPEED True Stalling Speed in Landing Configuration at Combat Weight at Sea Level Kts. 110 RANCE Combat Radius of Action at 50,000 Ft., Climb at M.N. = .92, Cruise out at M.N. = 1.5, Gombat for 5 Mins. at M.N. = 1.50, Cruise Back at M.N. = .92, 15 Min. Stack at 40,000 Ft., 5 Min. Fuel Reserve on Landing 200 High Speed Mission with 15,298 Lb. Fuel N.M. High Speed' Nission with Full Internal Fuel N.N. 309 Combat Radius of Action at 50,000 Ft., Mission as above except climb at 530 Kts. and cruise out at N.N. = .92 406 Maximum Range Mission with 15,298 Lb. Fuel N.M. Maximum Range Mission with Full Internal Fuel N.M. 605 Combat Radius of Action at Sea Level, Cruise out at .6 M.N. and Combat at M.N. = .92 at Sea Level, Cruise Back at .92 M.N. at 40,000 Ft., 15 Min. Stack, 5 Min. Fuel Reserve on Landing Sea Level Mission with 15,298 Lb. of Fuel N.M. Sea Level Mission with Full Internal Fuel N.M. 470 Ferry Range Mission at Economical Cruise Speed (M = .92 and Height, including 15 Mins. Stacking at 40,000 Ft., 5 Min. Fuel Reserve on Landing 1,859 Range with Full Internal Fuel and 500 Gal. - External Tank . N.M. 1,609 Range with full internal fuel N.M.



MASS 10 X 10 TO THE 1/4 INCH 359-12 KEUFFEL & ESSER CO. MASSINUS.A.

SECRET

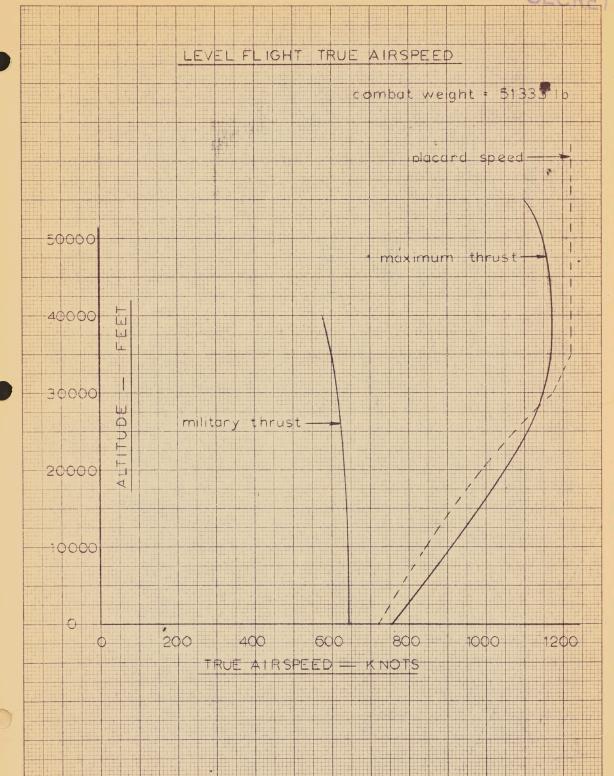
10 X 10 TO THE 1/2 INCH 359-12 KEUFFEL & ESSER CO. MADEINUS. A.



SECRET

10 X 10 TO THE 1/2 INCH 359-12 REUFFEL & ESSER CO. PULLINUSA.

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SECRET

REPORT NO. PIPERF/ 105 SHEET NO .. AIRCRAFT A. U. W ► 50 ft obstacle distance to clear ground mun 65000 00009 SEA LEVE 18 standard day without alb V 55000 hot day (100 °F) with a/b WEIGHT day with a/b DISTANCE AIRCRAFT 50000 **LAKEOF** standard 5000 0000 0 8000 0000 • 14 DISTANCE TAKEOFF FORM 1746 I Was

MASS 10 X 10 TO THE 1/2 INCH 359-12 HAVENULS.A.

