

SURRENDERED January 23, 2002

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

H13NM
Revision 1
Chet Raspberry Inc.
(CRI)
CH-54A
Surrendered January 23, 2002

TYPE CERTIFICATE DATA SHEET NO. H13NM

This data sheet, which is a part of Type Certificate No. H13NM, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder: Chet Raspberry Inc. (CRI)
19378 Central Road
Apple Valley, CA 92307

I.- Model CH-54A (Restricted Category Rotorcraft) Approved October 5, 1993

See NOTE 6

Engines 2 Pratt & Whitney JFTD12A-4A (T73-P-1)

Fuel Aviation Kerosene JP4 or JP5

Engine Limits

	Shaft Horsepower	Power Turbine Speed (N ₂)	Gas Gen. Speed (N ₁)	Power Inlet (T ₆)
Military Power (30 Min.)	4500	105%	104%	688-C
Normal Continuous Cruise	4000	104%	104%	655-C

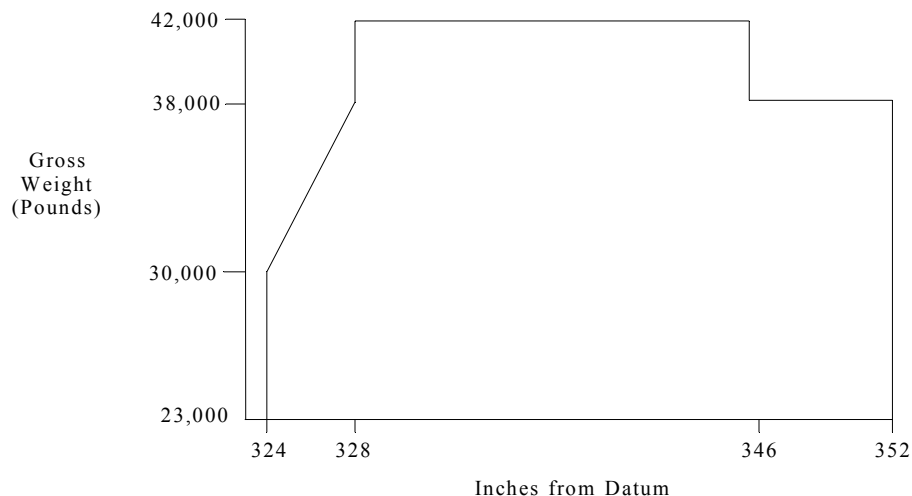
Rotor limits Max. 204 rpm (110% Nr)
Min. 167 rpm (90% Nr)

Airspeed V_{NE} (Never Exceed Speed): 99 knots between 38,000 lbs. and 42,000 lbs. gross weight.
115 knots up to 38,000 lbs. gross weight

Center of Gravity
(C.G.) Range 324.0 to 352.0 at 23,000 lbs.
324.0 to 352.0 at 30,000 lbs.
328.0 to 352.0 at 38,000 lbs.
328.0 to 346.0 at 38,000 lbs.
328.0 to 346.0 at 42,000 lbs.

Straight line variation between points given.

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Datum	336 inches forward of main rotor centroid.
Leveling Means	Plumb line from top level plate inside cockpit aft door.
Maximum Weight	42,000 lbs.
Minimum Crew	2 (pilot and co-pilot)
Number of Seats	5 - 2 at (+92.9), 1 at (+108.5), 1 at (+127.0), 1 at (+130.0)
Maximum Cargo	See NOTE 5.
Fuel Capacity	1351 gal. 454 gal. at (+280.8), 454 gal. at (+397.3), 443 gal. at (+461.3).
Oil Capacity	3.2 gal. at (+234.0), (2 tanks 1.6 gal. each).
Rotor Blade & Control Movements	For rigging information, see NOTE 7.
Other Operating Limitations	See NOTE 4.
Serial No. Eligible	68-18447
Certification Basis	FAR 21.25(a)(2) effective February 1, 1965, including Amendments 21-1 through 21-42, FAR 36.1(a)(4), Type Certificate No. H13NM issued October 5, 1993, for Agricultural aircraft operations, for dispensing fire fighting materials or carrying external loads.
Production Basis	None. Prior to certification of each aircraft, a representative must perform a detailed inspection for workmanship, materials, and conformity with approved technical data, and will verify that a maintenance flight test has been completed for each aircraft by qualified maintenance personnel in accordance with the Department of the Army Technical Manual TM 55-1520-217-MFT-1, dated June 17, 1985.
Equipment	Equipment necessary for the particular special purpose operation must be installed.

NOTES

- NOTE 1. A current weight and balance report including a list of equipment included in the certificated empty weight, and loading instructions when necessary, must be in each helicopter at the time of original airworthiness certification and at all times thereafter.

- NOTE 2. The following modifications are required. A placard must be prominently displayed in the cockpit in full view of the pilots, in accordance with drawing CRI-01.
- "THIS ROTORCRAFT MUST BE OPERATED IN ACCORDANCE WITH THE RESTRICTED CATEGORY OPERATING LIMITATIONS OF FAR 91.313"
- The builders data plate required by FAR 45.13 must be installed in accordance with drawing CRI-02.
- NOTE 3. The Maximum Allowable Operating Time (MAOT) schedule for Service Life Limited Part overhaul and retirement intervals are specified in Chapter 1, Section VI, of Technical Manual No. TM 55-1520-217-23-1, "Aviation Unit and Intermediate Maintenance Manual CH-54A Helicopter," with Changes 1 through 21, dated September 23, 1987.
- T73 Engine TBO was increased from 1500 to 1800 hours in accordance with Dept. of Army message 0619452 dated April 13, 1988. Additional MAOT extensions were granted to specific CH-54A T-73 engines in accordance with Dept. of the Army, AVSCOM (AMSAU-ED) letters. These T-73 engine MAOT extensions may not be exceeded.
- NOTE 4. This helicopter must be operated in accordance with a Flight Manual comprised of the following:
- (1) Department of the Army Technical Manual No. TM 55-1520-217-10-1, "Operators Manual, Army Model CH-54A Helicopters," dated April 8, 1977, with Changes 1 through 8, revised September 25, 1986.
 - (2) Department of the Army Technical Manual No. TM 55-1520-217-CL-1, "Operator's & Crewmember's Checklist, Army Model CH-54A Helicopters, Pilot's Checklist," dated June 2, 1985.
- Day VFR Restricted Category operations only.
- NOTE 5. Provisions for the carriage of external loads are available in the form of structural hard points on the fuselage and main landing gear; single and four-point hoists; and a four-point load-leveler suspension system. Information concerning the operating limitations with this equipment is contained in the Flight Manual.
- NOTE 6. Prior to civil airworthiness certification, CRI Helicopter Inc. Engineering Report No. 001 must be incorporated.
- NOTE 7. These helicopters must be serviced and maintained in compliance with CRI Helicopters Inc. Continued Airworthiness Maintenance Report No. 002.
- | NOTE 8. This TCDS surrendered January 23, 2002.

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