

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

H17NM
REVISION 1
SILVER BAY LOGGING, INC.
CH-54A

June 30, 1995

TYPE CERTIFICATE DATA SHEET NO. H17NM

This data sheet, which is part of Type Certificate No. H17NM, 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: Silver Bay Logging, Inc.
Cube Cove #2
Juneau, Alaska 99850-0360

I - Model CH-54 A (Restricted Category Rotorcraft) Approved June 29, 1994 (see note 6)

Engines: Quantity 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 ₅)
Military Power (30 min.)	4500	105%	104%	688 °C
Normal Continuous Cruise	4000	104%	104%	655 °C

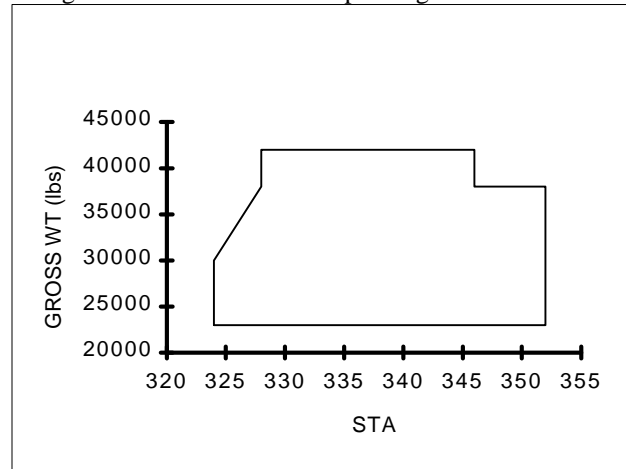
Rotor Limits Max: 204 rpm (110% N_r)
Min: 167 rpm (90% N_r)

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

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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.



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 U.S. gal. total ; 454 gal. at (+280.8), 454 gal. at (+397.3), 443 gal. at (+461.3).
Oil capacity	3.2 U.S. gal. at (+234.0), (2 tanks at 1.6 gal each)
Rotor Blade & Control Movements	For rigging information, see NOTE 7.
Other Operating Limitations	See NOTE 4.
Serial Nos. Eligible	68-18433, 68-18459
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. H17NM issued June 29, 1994, for agricultural, forest and wildlife conservation or carrying external loads.

Production Basis None. Prior to certification of each aircraft, an FAA representative must perform a detailed inspection for workmanship, materials, and conformity with approved technical data.

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:
The placard shown below must be prominently displayed in the cockpit of CH-54A Serial Number 68-18459 in full view of the pilots, in accordance with Aviaton Classics Ltd. Drawing Number ACL94-CH54A/MODP dated May 2, 1994. For CH-54A Serial Number 68-18433 and other CH-54A Serial Numbers determined to be eligible, the placard must be displayed in accordance with Silver Bay Logging, Inc. Drawing Number SBL CERT CH-54A-1002 dated 15 June, 1995 or later FAA Approved Revision.

"THIS ROTORCRAFT MUST BE OPERATED IN ACCORDANCE WITH THE RESTRICTED CATEGORY OPERATING LIMITATIONS OF FAR 91.313."

The builder's data plate required by FAR 45.13 must be installed on CH-54A Serial Number 68-18459 in accordance with Aviaton Classics Ltd. Drawing Number ACL94-CH54A/MODR dated April 11, 1994. For CH54A Serial Number 68018433 and other CH-54A Serial Numbers determined to be eligible, the builder's data plate required by FAR 45.13 must be installed in accordance with Silver Bay Logging, Inc. Drawing Number S.B.L. CERT CH-54A-1001 dated 15 June 1995 or later FAA Approved Revision.

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.

The Maximum Allowable Operating Time (MAOT) for Life Limited Parts (LLP) on the Main Rotor Head are specified in the following list:

MAIN ROTOR HEAD PART NO'S 6410-20004, -029, -031, -035:

<u>ITEM</u>	<u>NOMENCLATURE</u>	<u>PART NUMBER</u>	<u>RETIREMENT</u>
			<u>INTERVAL (MAOT)</u>
1	Upper Plate	6410-23010-011	3000
2	Lower Plate	6410-23007-011	3000
3	Spacer	6410-23016-041	9000
		-23006-012	4175
4	Hub	1510-23001-4	1030
5	Rod And Bushing	6410-21090-011	5745
6	Sleeve Locknut	1510-23357-0	18300
7	Rot. Swashplate	6410-24002-102	4560
8	Spindle Locknut	1510-23031-1	10500
		-23031	750
9	Sleeve	1510-23351	10200
11	Control Horn	1510-23350-2	1600
12	Horiz. Hge. Pin	1510-23099-1	3500
13	Vert. Hge Pin	1510-23022	2800

- NOTE 3. (cont) 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 T73 engines in accordance with Dept. of the Army, AVSCOM (AMSAU-ED) letters. These T73 engine MAOT extensions may not be exceeded.
- NOTE 4. This helicopter is approved for VFR Operations only and 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, "Operator's 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 and Crewmember's Checklist, Army Model CH-54A Helicopters, Pilot's checklist", dated June 2, 1985.
- Restricted category aircraft may not be operated in a foreign country without the express written approval of that country.
- This aircraft has not been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention of International Civil Airworthiness.
- 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 point hoist : four lashing reels; and four load-leveler suspension systems. Information concerning operating limitations with this equipment is contained in the Flight Manual.
- NOTE 6. Prior to civil airworthiness certification, each rotorcraft must conform to the data contained in Aviation Classics Limited Engineering Report No. AL-ER 101, dated 20 June 1994 or later FAA approved revisions.
- NOTE 7. Rotorcraft covered by this Type Data Sheet must be serviced and maintained in compliance with Aviation Classics Limited Instructions for Continued Airworthiness Report No. AL-MR 102, dated 20 June 1994 or later FAA approved revisions.

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