

UNAPPROVED PARTS NOTIFICATION



U.S. Department
of Transportation
**Federal Aviation
Administration**

SUSPECTED UNAPPROVED PARTS PROGRAM OFFICE, AVS-20
13873 PARK CENTER ROAD, SUITE 165
HERNDON, VA 20171

UPNs are posted on the Internet at <http://www.faa.gov/avr/sups/upn.cfm>

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Mailed by: FAA, AIR-140, P.O. Box 26460, Oklahoma City, OK 73125

AFFECTED PARTS

R-1820 engine cylinders.

PURPOSE

The purpose of this notification is to advise all aircraft owners, operators, manufacturers, maintenance organizations, and parts distributors regarding improper maintenance performed on R-1820 engine cylinders.

BACKGROUND

Information received during a Federal Aviation Administration (FAA) suspected unapproved parts investigation revealed that West Coast Cylinder Works (West Coast Cylinder), located at 13907 Marquardt Avenue, Santa Fe Springs, CA 90670, improperly maintained R-1820 engine cylinders. West Coast Cylinder previously held Air Agency Certificate No. YO3R005M.

Evidence indicated that West Coast Cylinder failed to perform Fluorescent Penetrant Inspection (FPI) on certain R-1820 engine cylinders, as required by its approved process specification. The affected cylinders were either sold as spare parts or installed on engines subsequently overhauled and approved for return to service by Airpower, Inc., an FAA-certificated repair station (NS3R721L), located at 4745 Highland Springs Road, Lakeport, CA 95453.

The table below presents a *partial list* of cylinders that may have been improperly approved for return to service by West Coast Cylinder.

ENGINE S/N	CYLINDER S/N (AIRPOWER, INC.)	AFFECTED AIRCRAFT
BL510087	AP 5111, 5112, 5114, 5116, 5121, 5123, 5124, 5126	Grumman Albatross
BL515782	AP 5021	Grumman S-2
BL516585	AP 3753, 3758, 3764, 4497, 4869, 4883	Grumman S-2
BL516700	AP 2595, 4973, 4995	Grumman S-2
BL520708	AP 3401, 4800, 4816, 4842, 4910	North American T-28
BL520779	AP 3037	North American T-28
PC10037	AP 2139, 5036, 5038, 5039, 5041, 5042, 5051, 5052	Grumman S-2
PC10045C	AP 3323, 5059, 5066, 5068, 5074, 5077, 5078, 5079	Grumman S-2
PC10098C	AP 5001, 5003, 5004, 5005, 5006, 5022, 5024, 5025	Grumman S-2

PC10179C	AP 5034, 5035	Grumman S-2
PC10184C	AP 5044, 5065, 5069, 5075, 5076	Grumman S-2
PC10223	AP 5037, 5040, 5043, 5056, 5057, 5060, 5062, 5064	Grumman S-2
PC10245C	AP 4867, 4902, 4907, 4909	Grumman S-2
PC10259	AP 2975, 4980, 4985	Grumman S-2
PC10268C	AP 2978, 4908, 4911, 5071	Grumman S-2
W507451	AP 4988, 4989, 4990, 4991, 4992, 4993, 4994	DC-3
W507573	AP 4882, 4940, 4964, 4965, 4967	DC-3
W507589	AP 4498, 4937, 4966, 4969, 4970, 4972, 4974	DC-3
<i>R-1820 Engine Cylinders Sold as Spare Parts:</i>		
AP 2976, 3030, 3336, 4130, 4636, 4806, 4866, 4868, 4870, 4912, 4924, 4930, 4931, 4932, 4933, 4934, 4935, 4936, 4937, 4939, 4941, 4942, 4953, 4977, 4978, 4996, 4997, 5054, 5061, 5063, 5073		

RECOMMENDATIONS

Regulations require that type-certificated products conform to their type design. Aircraft owners, operators, manufacturers, maintenance organizations, and parts distributors should inspect their aircraft, aircraft records, and/or parts inventory for any cylinders approved for return to service by West Coast Cylinder. If any cylinders maintained by West Coast Cylinder have been installed on aircraft, appropriate action should be taken. If any are found in existing aircraft stock, it is recommended that the cylinders be quarantined to prevent installation until a determination can be made regarding their eligibility for installation.

FURTHER INFORMATION

Further information concerning this investigation and guidance regarding the above-referenced parts may be obtained from the FAA Flight Standards District Office (FSDO) shown below. In addition to the above recommendations, the FAA would appreciate any information concerning the discovery of the parts, the means used to identify the source, and the action taken to remove the parts from service.

This notice originated from the Los Angeles FSDO, 2250 East Imperial Highway, Suite 140, El Segundo, CA 90245, telephone (310) 215-2150, fax (310) 645-3768; and was published through the FAA Suspected Unapproved Parts Program Office, AVS-20, telephone (703) 668-3720, fax (703) 481-3002.