



1435 Win Hentschel Blvd., Suite 205
West Lafayette, IN 47906

SERVICE INSTRUCTION

no. 1

DATE: June 28, 2022

SUBJECT: Approved fuels for Intermixing with 100R Unleaded Avgas

REASON FOR REVISION: This is the original issuance of this Service Instruction.

MODELS AFFECTED: Aircraft with installed FAA-Approved STC's No: SA04652CH & SE04651CH.

WARNING: INCOMPLETE REVIEW OF ALL THE INFORMATION IN THIS DOCUMENT CAN CAUSE ERRORS. READ THE ENTIRE SERVICE INSTRUCTION TO MAKE SURE YOU HAVE A COMPLETE UNDERSTANDING OF THE REQUIREMENTS.



PURPOSE: This Service Instruction identifies approved fuels which can be intermixed with Swift 100R, for aircraft with an installed FAA-Approved STC from Swift Fuels, LLC (STC's No: SA04652CH & SE04651CH). This Service Instruction complies with Order 8110.54A; 14 CFR § 33.4 and 14 CFR 23 App G23.3(a)(4); 14 CFR § 23.2425(a) amdt.23-64 and 14 CFR 23 App A23.3(a)(4) amdt 23-64 for Instructions for Continued Airworthiness. This Service Instruction complies 14 CFR §§ 23.1521(d), 23.1529 and 33.7(b)(2) and (3); 14 CFR § 91.9; for powerplant and operating limitations; and follows the guidance found in AC20-24D chg 1 Approval of Propulsion Fuels, Additives and Lubricating Oils.

FUEL INFORMATION: Specifications are used to identify fuel types and grades. The FAA accepts standards to define aviation gasolines from consensus-based industry organizations, governmental, or military standards or standards in the form of independent specifications, so long as the specification provides an equivalent determination of fuel properties, performance, and quality control as the historical approach to standards. Table 1 shows international Approved Fuel Grades and Specifications acceptable for intermixing with Swift 100R in aircraft and engines certified to use such fuels.

REMAINDER OF PAGE
INTENTIONALLY LEFT BLANK

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR	1 of 2	Original
06	28	2022	--	--	--		

WARNING:

THE LISTING OF LOWER-OCTANE FUELS ON THE TABLE BELOW DOES NOT AUTHORIZE THE USE OF SUCH FUELS VIA THIS SERVICE INSTRUCTION, IT MERELY IDENTIFIES THAT FOR THOSE AIRCRAFT ALREADY CERTIFIED FOR SUCH LOWER-OCTANE FUEL, THEY CAN BE INTERMIXED WITH 100R.

TABLE 1 - AVIATION FUEL GRADES AND SPECIFICATIONS APPROVED TO MIX WITH 100R

TYPE	APPROVED FUEL GRADE	SPECIFICATION	SPECIFICATION TITLE	FUEL COLOR
LEADED AVGAS	100LL	ASTM D910	Standard Specification for Leaded Aviation Gasolines	Blue
	100			Green
	100VLL			Blue
	100	DEF-STAN 91-90	Gasoline, Aviation, Grades UL91,100/130 and 100/130 Low Lead.	Green
	100LL			Blue
UNLEADED AVGAS	UL91	ASTM D7547	Standard Specification for Hydrocarbon Unleaded Aviation Gasoline	Red
	UL94			Purple
	UL91	DEF-STAN 91-90	Gasoline, Aviation, Grades UL91,100/130 and 100/130 Low Lead.	Red
Automotive Gasoline	Super Plus	EN228	Automotive fuels - Unleaded petrol - Requirements and test methods	Clear
	93	ASTM 4814	Standard Specification for Automotive Spark-Ignition Engine Fuel	Yellow
	87			Yellow

RESTRICTIONS:

Any other fuel not listed in Table 1 of the current revision of this Service Instruction are **not authorized** for intermixing, blending, or use with 100R avgas. Certain octane-boosting compounds present in additives or fuel blends not listed in Table 1 have been shown to create a substantial deviation to the quality of 100R when intermixed with 100R. Accordingly, it is important to follow this Safety Instruction in full, and to make sure you have the most current revision of this Service Instruction.

END OF DOCUMENT

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR	2 of 2	Original
06	28	2022	--	--	--		