

AIRWORTHINESS COMPLIANCE CHECKLIST : ALTERNATE FUEL AND OIL LINE FABRICATION AND INSTALLATION
I HAVE DETERMINED THE PLANNED ALTERATION TO BE IN COMPLIANCE WITH PARAGRAPH C, CHECKLIST APPLICABILITY.

IA SIGNATURE _____ DATE _____
 AIRCRAFT MAKE _____ MODEL _____
 SERIAL # N# _____

TABLE 4-1. Relocation of Engine Oil Cooler - Checklist Qualifications for Approved Data Review.

Item [1] Completed Initials	Planned FAA Approval Method			Subject Evaluated	(14 CFR)	(CAR)	Item to Consider or Intent of the regulation	DER Authority [3] (ref. 8110.37	Other Guidance	
	DER 8110-3	FSDO ASI, 337, Block 3	Other (AC 43.13)						AC Orders Policy	AC 43- 13-1B/2A
				Loads	23.301	3.171	<ul style="list-style-type: none"> LIMit load is maximum in service Analysis to LIM must produce no yield. Weight for test = bracket structure + associated hoses + oil in hoses. 			
				Factor of Safety	23.303	3.172	<ul style="list-style-type: none"> ULTimate = LIMit load * 1.50 (50% margin of safety) 			
				Strength and deformation	23.305	3.173	LIM with no yield. ULT with no failure.			
				Proof of Structure	23.307	3.174	<ul style="list-style-type: none"> LIMit loads are determined by flight (man. & gust) and landing loads. For lack of this data the loads from 23.561 may be used (but not required). 			
				Materials and Workmanship	23.603	3.292	<ul style="list-style-type: none"> All materials must meet approved specifications. Hoses in fire area per TSO-C53a, type C/D. All non-standard aircraft hardware to be substantiated. Baffle material to withstand engine heat (ie. silicone impregnated fiberglass). Grommets, firewall bulkhead fittings, etc. 			
				Inspection Provisions	23.611	3.296	<ul style="list-style-type: none"> Inspection and servicing must be accomplished in an appropriate manner. 			
				Fuel Flow	23.955	3.433	<ul style="list-style-type: none"> Use hose of equal or greater size. 			

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				Fuel System Lines and Fittings	23.993	3.550	<ul style="list-style-type: none"> • Support line so that no excessive vibration occurs. • Provisions for flexibility for relative motion. • Limitations of flexible hose. 			
				Fuel System Components	23.994	-	<ul style="list-style-type: none"> • Protect hoses from wheels up landing (tric gear) 			
				Fuel System Drains	23.999	3.553	<ul style="list-style-type: none"> • Do not create new 'low spots' 			
				Oil System Drain	23.1017	3.570	<ul style="list-style-type: none"> • Excessive vibration • Flow rate, install equal or larger size. • Breather lines must; <ul style="list-style-type: none"> ○ not allow condensation to freeze and obstruct line ○ not constitute fire hazard from foaming. ○ not allow omitted oil from striking windshield. ○ not discharge into induction air intake. ○ not be prone to blockage by ice. 		AC 20-40	
				Instruction for Continued Aiworthiness	23.1529	-	<ul style="list-style-type: none"> • See separate guidance. 			
			****			***** *	<ul style="list-style-type: none"> • END ***** 			

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