

ALASKA PRIME POWER GENSET ENGINE SELECTION MATRIX < 800 HP – SEPTEMBER 2016

(Applies to Remote Areas of Alaska - 40 CFR 60.4219)

ENGINE CATEGORY	Purchase a New Diesel Engine (40 CFR 60.4200)	Purchase a Replacement Engine (40 CFR 60.4211(i)) (40 CFR 1068.240)	Purchase a Remanufactured Engine		Purchase a Used Engine		Rebuild <u>your</u> existing Engine	
			RICE NESHAP (non-certified)	NSPS (certified)	RICE NESHAP (non-certified)	NSPS (certified)	RICE NESHAP (non-certified)	NSPS (certified)
YEAR OF MANUFACTURE	2014 and newer	This is a brand new engine, using a new block, built to earlier Tier emissions requirements.	Date of engine block manufacture: on or before April 1, 2006 (40 CFR 60.4200)	Date of engine block manufacture: after April 1, 2006 (40 CFR 60.4200)	Date of engine block manufacture: on or before April 1, 2006 (40 CFR 60.4200)	Date of engine block manufacture: after April 1, 2006 (40 CFR 60.4200)	Date of engine block manufacture: on or before April 1, 2006 (40 CFR 60.4200)	Date of engine block manufacture: after April 1, 2006 (40 CFR 60.4200)
HOW DOES CAPITAL COST AFFECT ENGINE TIER REQUIREMENT	Not Applicable	Not Applicable	If cost of remanufactured engine is greater than 50% of cost of comparable new engine, must meet Tier 1 requirements (40 CFR 63.2) (40 CFR 60.15)	50% cost rule does not affect certified (Tier) engines	Converting a nonroad or other non-stationary engine to stationary use does not change date of manufacture (40 CFR 60.4219)	Deadlines for installing prior model year engines do not apply to engines that have been removed from one existing location and reinstalled at another location (40 CFR 60.4208(i))	If cost to rebuild engine is greater than 50% of cost of comparable new engine, must meet Tier 1 requirements (40 CFR 63.2) (40 CFR 60.15)	50% cost rule does not affect certified (Tier) engines
			If the cost of the remanufactured engine is greater than 75% of cost of comparable new engine, must meet Tier 4 emission requirements (40 CFR 60.4219 – Reconstructed)	The capital cost of a used engine does NOT affect the date of manufacture or change the engine Tier requirement – as long as engine is not Modified or Reconstructed (40 CFR 60.4219 – Reconstructed) (40 CFR 63.2 – Construction)	If the cost to rebuild engine is greater than 75% of cost of comparable new engine, must meet Tier 4 emission requirements (40 CFR 60.4219 – Reconstructed)			
HOW DOES AGE OF BLOCK AFFECT ENGINE TIER REQUIREMENT	Must be current certified engine: Final Tier 4 or Marine Tier 3	New Block = new engine, which must meet Tier 4	block must be “ used ”, and at least one additional engine component remanufactured, or engine must meet Tier 4 requirements (40 CFR 60.4219 – Reconstructed)	on or before April 1, 2006 (40 CFR 60.4200)	after April 1, 2006 (40 CFR 60.4200)	Recommend rebuild engine to same or cleaner configuration	Must rebuild engine to same or cleaner certified configuration (40 CFR 1068.120)	
WHAT ARE MY OPERATIONS, MAINTENANCE, AND RECORD REQUIREMENT	requires ULSD, Tier 4 likely includes DOC/DPF/SCR Marine Tier 3: Requires DPF Operate and Maintain IAW Manufacturers written emissions instructions (40 CFR 60.4211)	limited options for use, as OEM vendor must certify and document no other certified engine available with comparable performance as engine being replaced “Replacement” engine rule unlikely to be used for prime power applications in rural Alaska	Management Practices: Inspect air cleaner, change oil & filter @ 1000-hrs, Inspect hoses & belts @ 500-hrs, Operate & Maintain engine IAW Mfrs instructions or Owner mtc plan Keep Records (40 CFR 63.6603)	Operate and Maintain IAW Manufacturers written emission instructions (40 CFR 60.4211) ULSD fuel: MY14 and newer engines require ULSD fuel (40 CFR 60.4216d)	Management Practices: Inspect air cleaner, change oil & filter @ 1000-hrs, Inspect hoses & belts @ 500-hrs, Operate & Maintain engine IAW Mfrs instructions or Owner mtc plan Keep Records (40 CFR 63.6603)	Operate and Maintain IAW Manufacturers written emission instructions (40 CFR 60.4211) ULSD fuel: MY14 and newer engines require ULSD fuel (40 CFR 60.4216d)	Management Practices: Inspect air cleaner, change oil & filter @ 1000-hrs, Inspect hoses & belts @ 500-hrs, Operate & Maintain engine IAW Mfrs instructions or Owner mtc plan Keep Records (40 CFR 63.6603)	Operate and Maintain IAW Manufacturers written emissions instructions (40 CFR 60.4211) ULSD fuel: MY14 and newer engines require ULSD fuel (40 CFR 60.4216d)

DEADLINE FOR INSTALLING NEW ENGINES (40 CFR 60.4208)

- a new engine greater than or equal to 75 HP and less than 175 HP **may not be installed after December 31, 2013** unless it meets 2012 model year (*Non-Road Interim Tier 4 or Marine Tier 2*) req's
- a new engine greater than or equal to 175 HP and less than 750 HP **may not be installed after December 31, 2012** unless it meets 2011 model year (i.e., *Non-Road Tier 3 or Marine Tier 2*) requirements