



HUDSON FIRE DEPARTMENT

296 COX STREET, HUDSON, MASSACHUSETTS 01749 978-562-5565

Memorandum

To: Thomas Gregory
Town of Hudson Executive Assistant

From: Fire Chief Bryan Johannes

Date: 11/16/2023

Re: Town Meeting Bullet Points for New Engine Request

Below is a snapshot of the vehicles and their current mileage as of 11/14/2023.

Engine 1:	2006 E-One Typhoon	Mileage:	86,244
Engine 2:	2013 E-One Typhoon	Mileage:	57,125
Engine 4:	2018 E-One Typhoon	Mileage:	34,695
Engine 5:	2019 E-One Typhoon	Mileage:	38,098
Rescue 1:	2016 E-One Cyclone Heavy Rescue	Mileage:	9,794
Ladder 1:	2005 E-One Cyclone II 95' RMA Tower	Mileage:	32,878

- Five different Manufacturers vetted in early 2022. Pierce Manufacturing selected.
- Cost for new engine pumper \$651K
- ARPA funded engine ordered August 2022.
- Expected delivery date late Spring 2024?

- New engine delivery from Pierce Manufacturing is 36-40 months out from date of order.
- Other manufacturers are the same.
- Inflationary pressures of supply chain are unpredictable
- Current price is \$902K. This is an approximate 28% increase over ARPA engine.
- Price increase is mainly to meet EPA restrictions on emissions. Diesel motor manufacturers have to meet these requirements. EV manufacturers are going to pass that cost onto consumer.
- Limitations on current Station #1. Vehicle height limitations of 94-96 inches.

- New England winters harsh on vehicles.
- Electric option \$2.2 million not including infrastructure upgrades.
- No Mass municipality currently has one on order.
- EV technology for battery operated equipment too new. Technical expertise in field is not there.
- Estimated \$200K to replace batteries.