



MV ASTERIX: DELIVERING THE GOODS

GILLES COUTURIER, FEDERAL FLEET SERVICES CEO, 15 JULY 2020

CANADA - RCN REQUIREMENTS

- 1. *Deliver a vessel that can conduct replenishment at sea (RAS).*** Davie Shipbuilding designed & converted an existing modern container ship into a NATO compliant AOR for the Royal Canadian Navy - achieved on time and on budget
- 2. *Operate and maintain the vessel.*** Innovative solution: FFS owns and operates MV Asterix. The Canadian Armed Forces provides mission specialists for RAS, Medical/Dental, C4ISR, Logistics, Force Protection and Helicopter Operations



PROJECT RESOLVE

- The conversion of a 1,700 TEU containership into an Auxiliary Oiler Replenishment (AOR) and a 5-year (plus option periods) Provision of Services Contract with the Canadian Armed Forces
- Privately Financed Initiative - Corporately Owned & Corporately Operated (COCO)



WHY A CONTAINER SHIP? WHY A CONVERSION?

- Fast delivery of vessel
- Cost-effective (Significantly less than the cost of a new AOR)
- Davie has past experience converting containerships
- Containerships are fast vs tankers
- A large payload capacity (deadweight)
- Significant stability characteristics
- Strengthened under-decks allow for the fast and safe installation of pre-fabricated fuel tanks
- Containerships designed for 365-day use in all weather
- Vessel is already classed by Lloyd's Register (DNV GL)
- Double-hulled



Containership Conversion: Example 1
RFA Argus, Royal Navy



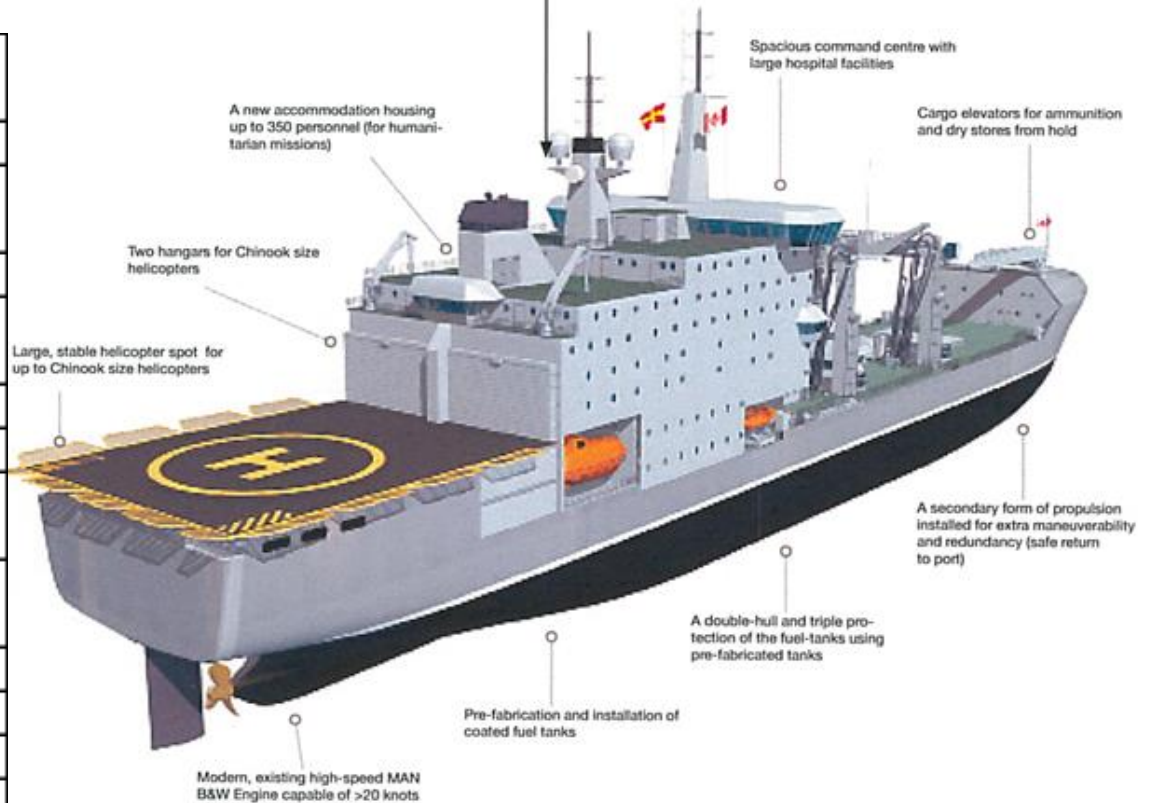
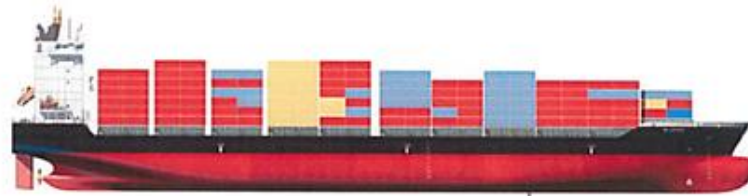
Containership Conversion: Example 2
USNS Regulus, US Navy



Containership Conversion: Example 3
BM5, Royal Malaysian Navy

Examples: previous naval containership conversions

DESIGN HIGHLIGHTS OF THE RESOLVE CLASS AOR

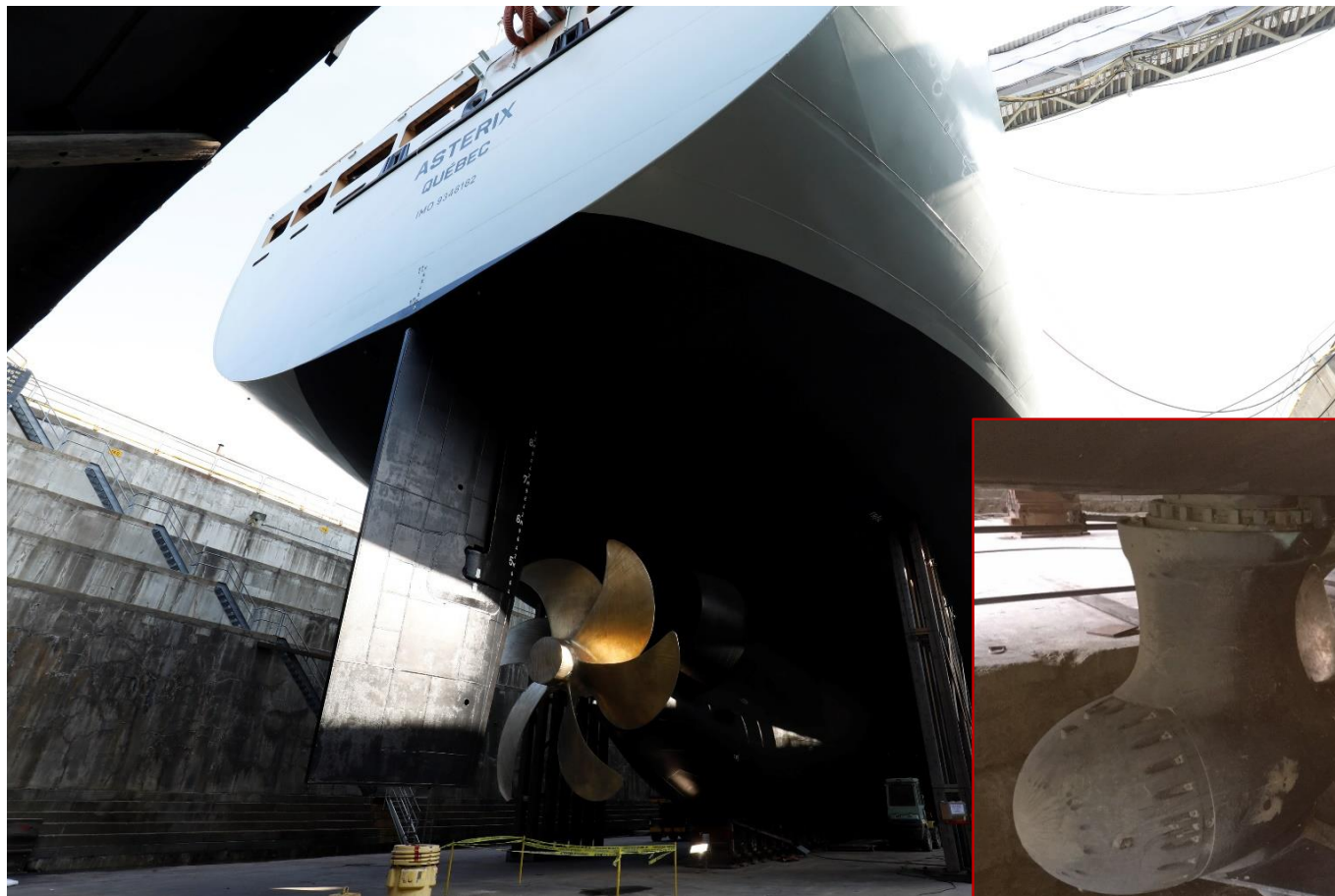


Availability / Delivery (from Contract)	18 months
Speed	21 knots cruising
Dimensions (Length/Beam/Draft)	App. 182.5m x 25.2m x 9.5m
Propulsion	Conventional + Drop Down Thruster
Accommodation	> 150 Personnel (+ large humanitarian Relief dormitories)
Helicopter Facilities	1 helideck, 2 hangars
RAS (L) Masts	4
F76 (Marine Diesel)	> 7,000 tonnes
F44 (JP5) (Aviation Fuel)	> 980 tonnes
Containers	20 Cargo TEUs
Ammunition	18 Ammo TEUs
Crane	2x 30t
Command	Operations Center
Hospital	2 Wards, OR, Dental, Xray

MV ASTERIX PRE-CONVERSION



MV ASTERIX UNDER CONVERSION AT DAVIE



MV ASTERIX – ACCOMMODATION MODULE

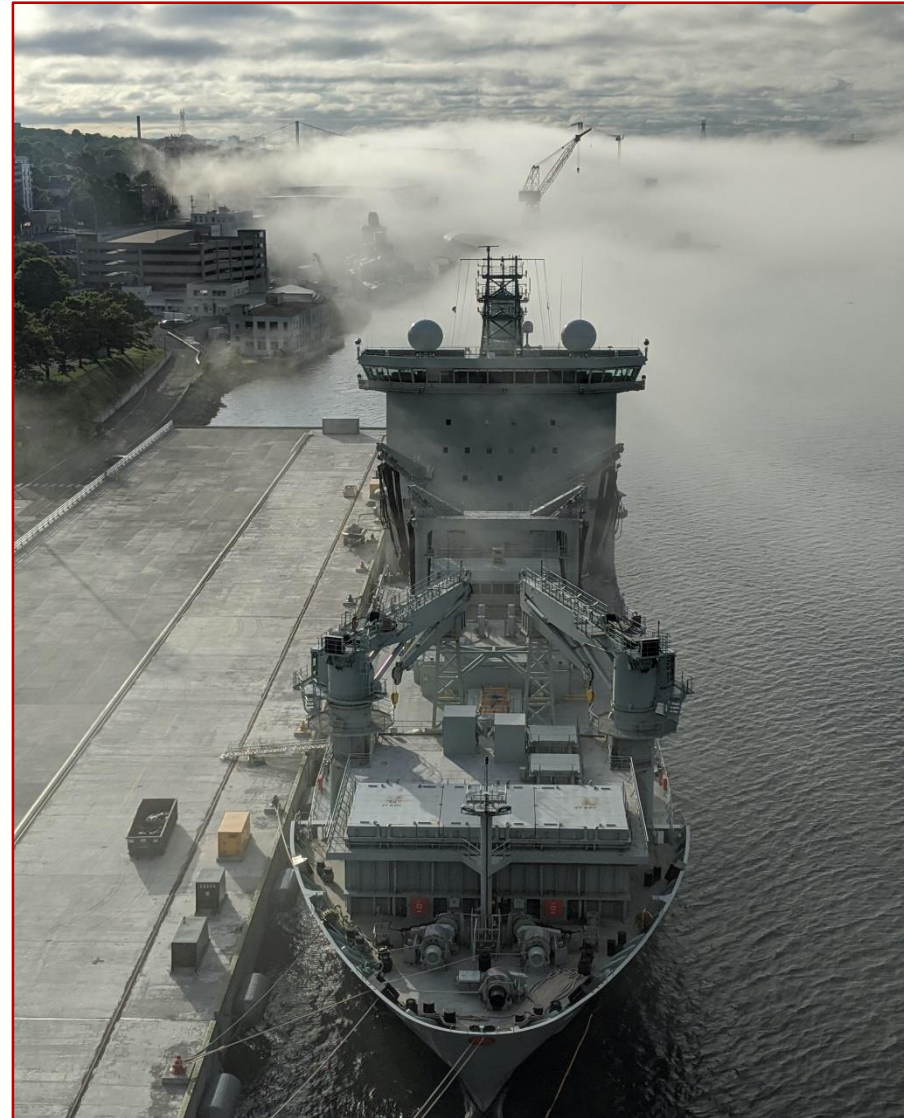


MV ASTERIX - COMPLETED



FEDERAL FLEET SERVICES INC.

- Federal Fleet Services Inc (FFS) supports military, government and humanitarian operations through the construction, ownership, servicing and management of complex, mission-critical ships.
- FFS provides an integrated, turnkey service encompassing all the required disciplines, facilities and capabilities to build, convert, operate, maintain and manage complex, mission-critical ships worldwide throughout the entire lifecycle of the asset.
- www.federalfleet.ca



2018 OPERATIONAL REACH OF MV ASTERIX



DECEMBER 2018

JANUARY 2018

ASTERIX IN 2018

132 Supply Operations

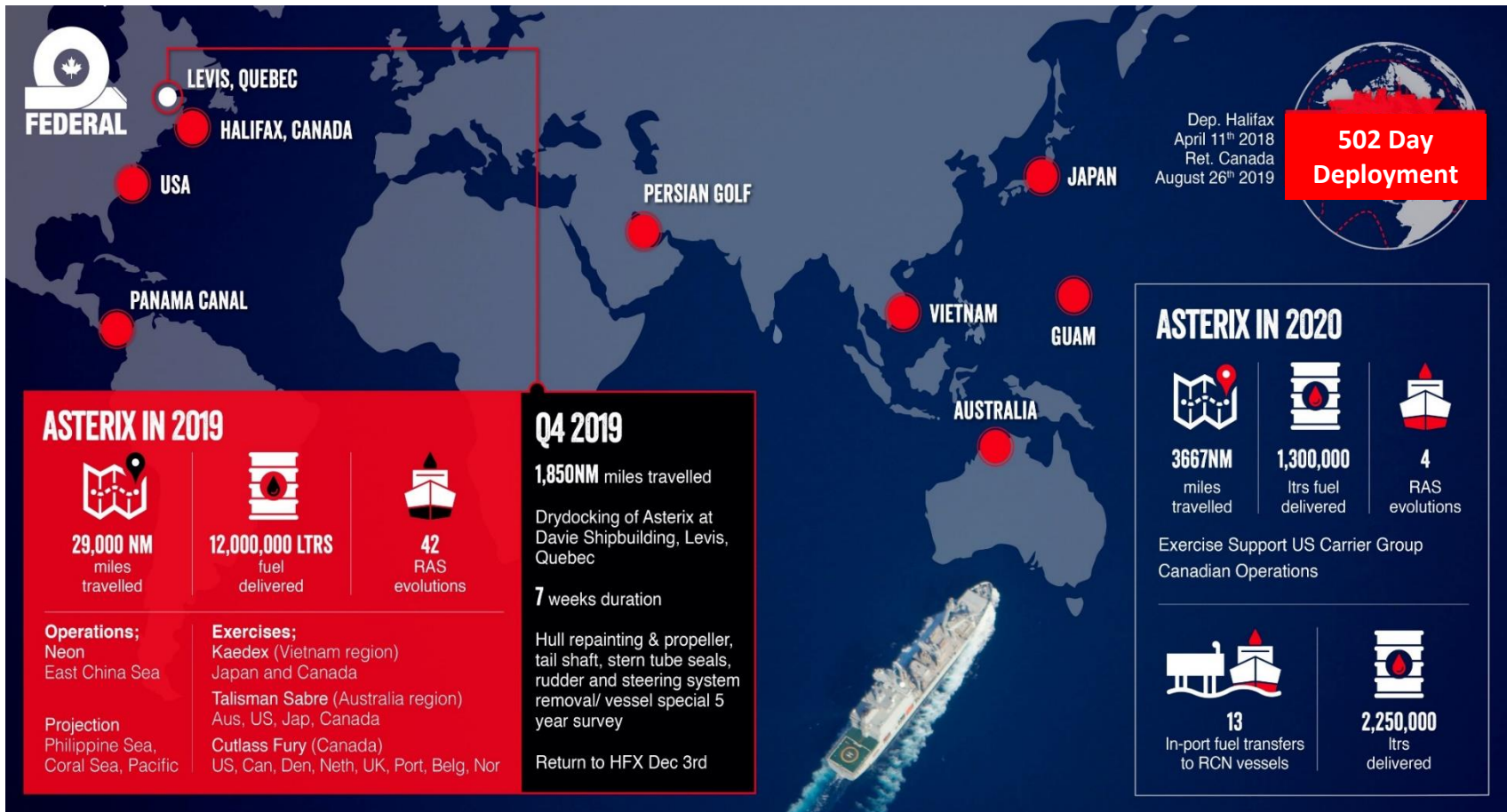
With 20 Allied Nations

Zero Downtime

Joint Exercises with the Japanese, US, Korean, Australian and Vietnamese navies

Naval Patrols in South East Asia and on the Korean peninsula

2019 OPERATIONAL REACH OF MV ASTERIX



MV ASTERIX BUNKERING HMCS TORONTO AT NK JUNE 2020



MV ASTERIX – USN HELO OPS MAY 2020



OUR MARINERS



QUESTIONS

RCN Requirements:

- 1. Deliver a vessel that can conduct replenishment at sea (RAS).*
- 2. Operate and maintain the vessel.*



READY TO SUPPORT THE RCN

