



This slide features a light blue background with a white wave-like graphic at the top. It contains three images: a close-up of a ship's superstructure with 'ATC' in yellow letters, a large tanker ship docked at a pier with mountains in the background, and a tanker ship navigating through a misty, mountainous fjord. The text 'Alaska Tanker Company' and 'January 2024' is positioned to the right of the images, and the OSG logo is in the bottom right corner.

Alaska Tanker Company
January 2024



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This slide has a light blue background with a white wave-like graphic at the top. It includes the ATC logo, the text 'Alaska Tanker Company' and 'Alaskan Frontier Purchase', and the OSG logo. The main content is a list of key events for the vessel Alaskan Frontier.

Alaska Tanker Company
Alaskan Frontier Purchase




Alaskan Frontier
August 2004 – Vessel Delivery

- **Owner:** BP Oil Shipping Co.
- **Operator:** Alaska Tanker Company, LLC
- **Service:** TAPS August 2004 – July 2018
- **Laid Up:** July 2018, International Shipcare, Labuan, Malaysia

November 2023 – Vessel Purchase

- **Agreement reached between BP Oil Shipping Co. & OSG/ATC for purchase of Alaskan Frontier**

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 Alaska Tanker Company
Alaskan Frontier Lay-Up 

International Shipcare (ISC) – Labuan, Malaysia

July 2018 – May 2024

- Vessel anchored in safe anchorage Brunei Bay
- ISC maintains vessel with agreed preventive maintenance care including testing and inspection of critical machinery
- Vessel accommodation, machinery spaces and pumproom maintained with controlled, dehumidified atmosphere
- ISC Reporting Conditions and ATC periodic vessel inspections

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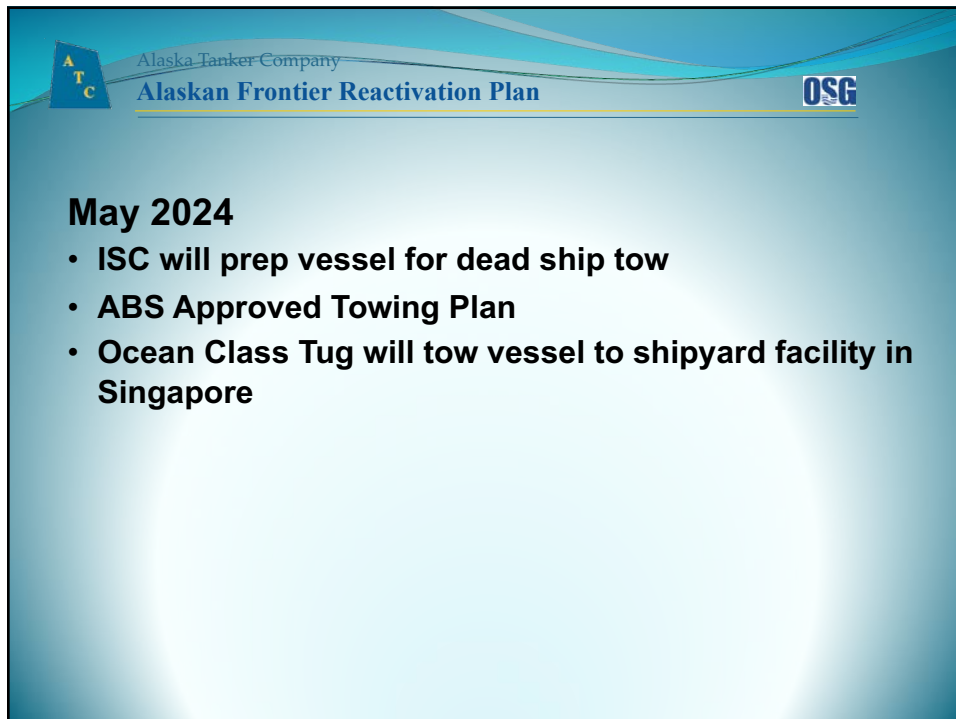
 Alaska Tanker Company
Alaskan Frontier Lay-Up 



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Alaska Tanker Company
Alaskan Frontier Reactivation Plan




June 2024 – September 2024

- **Commence reactivation shipyard including:**
 - **ABS Special Survey and Drydocking Survey**
 - **Full blast and coat of all underwater areas of hull**
 - **Extensive coating renewal on main deck areas and accommodation**
 - **Cargo and ballast tank inspections**
 - **Inspections and overhauls of critical machinery**

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Alaska Tanker Company
Alaskan Frontier Reactivation Plan




June 2024 – September 2024

- **Modifications and Upgrades:**
 - **Possible improved hull coatings to improve vessel speed and fuel consumption/emissions**
 - **Installation of Ballast Water Treatment System (BWTS) – Ecochlor Chlorination System similar to other Alaska Class**
 - **Radar and Navigation System upgrades**
 - **Computer Control Automation Upgrades**
 - **MAN Main Diesel Generator Lifecycle Upgrade (LCU)**

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Alaska Tanker Company
Alaskan Class MAN Lifecycle Upgrade (LCU)



Alaska Vessels equipped with redundant diesel electric propulsion systems

- Each fitted with (4) ea MAN 6L 48/60A diesel generator engines
- four stroke, medium speed diesel engines
- 6300 kW (8442 hp), 514 RPM – Total power 25,200 kW (33,768 hp)
- Approx. 70,000 – 80,000 operating hours since delivery – higher operating costs, increased fuel consumption, lube oil consumption
- Engines constructed in 2004-2006 but design/technology from 1980's-1990's
- Extensive overhaul and component exchange required by 100,000 operating hours

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Alaska Tanker Company
Alaskan Class MAN Lifecycle Upgrade (LCU)



MAN Original Equipment Manufacturer (OEM) develops Lifecycle Upgrade Path

- In lieu of engine renewal, MAN developed path to upgrade existing engines to newer, more robust, fuel-efficient engine design
- New Engines 6L 51/60 - 6300 kW (8442 hp), 514 RPM – Total power 25,200 kW (33,768 hp)
- Engines considered “Zero” operating hour engines by manufacturer and Classification Society
- Modern design with latest technology design, materials and components
- Significant improved fuel consumption
- Reduced lube oil consumption
- Future “Dual Fuel” Capable (LNG, Methanol, NH₄)

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Alaska Tanker Company
Alaskan Class MAN Lifecycle Upgrade (LCU) **OSG**



Parts marked in **RED** will be exchanged

1. Rocker Arms / Push Rods* / Control Levers*
2. Water Jackets
3. Cylinder Liners
4. Pistons / Conrods*
5. Camshafts incl. Bearings
6. TC / TC Console / CAC
7. Fuel Injection Pumps / VIT
8. New Piping
9. Counterweights* / Main Bearings / VD*
10. Exhaust Gas Pipes / Covers
11. Control System
12. Intake and Exhaust Gas adaption

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Alaska Tanker Company
Alaskan Class MAN Lifecycle Upgrade (LCU) **OSG**



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The slide features a blue gradient background with a white wave-like border at the top. In the top left corner is the Alaska Tanker Company logo, which consists of a blue square containing the letters 'A', 'T', and 'C' in yellow. To the right of the logo, the text 'Alaska Tanker Company' is written in a small, light blue font, followed by 'Alaskan Class MAN Lifecycle Upgrade (LCU)' in a larger, bold, dark blue font. In the top right corner is the OSG logo, which consists of the letters 'OSG' in a bold, dark blue font with a white outline.

Alaska Class LCU Timeline

Upgrades will happen in service and in scheduled shipyard periods

- **Alaskan Frontier: Jun 24' – Sep 24' (all shipyard)**
- **Alaskan Explorer: Dec 24' – Mar 25'**
- **Alaskan Navigator: Aug 25' – Nov 25'**
- **Alaskan Legend: May 26' – Aug 26'**