SIKU - CLASS TUGS

1,000 SERIES

Siku-Class tugs were designed for utilization with lighter barges and oil barges in the coastwise and river trades of Western Alaska. Their stern configuration shrouds the propellers in tunnels, enabling these tugs to work at very shallow draft.

Crowley operates one of the largest and most diverse fleets of tugs in the world. The fleet offers a full range of maneuverability and versatility for work inside and outside the harbor. Crowley tugs are regularly used for linehaul tandem towing, ship assist, tanker escort and emergency rescue towing throughout the Western Hemisphere, including Alaska; the U.S. West, Gulf and East coasts; and the Caribbean.

All company tugs are fully instrumented, with pilothouse-controlled engine rooms, and are equipped with the latest in navigational and communications technology.

CROWLEY MARINE SERVICES, INC.
2401 Fourth Avenue, Seattle, WA 98121 USA
Telephone: (206) 443-8100 Facsimile: (206) 443-8072
SIKU - CLASS TUGS

1,000 SERIES

<table>
<thead>
<tr>
<th>Tug</th>
<th>Built</th>
<th>Official No.</th>
<th>Call Sign</th>
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<tbody>
<tr>
<td>SIKU</td>
<td>1994</td>
<td>1029298</td>
<td>WCQ6174</td>
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<tr>
<td>SINUK</td>
<td>1994</td>
<td>1029299</td>
<td>WCQ8110</td>
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SIKU - CLASS SPECIFICATIONS:

**FLAG**
United States

**PORT OF REGISTRY**
San Francisco, CA

**BUILDER**
McDermott Shipyard
Morgan City, LA

**OVERALL DIMENSIONS**
Length: 85' 9"
Breadth: 28' 6"
Depth: 10' 0"

**TONNAGE - Registered**
118 tons gross; 80 tons net

**CONSTRUCTION**
Steel

**LIGHT DRAFT**
5' 6"

**LOADED DRAFT**
8' 3"

**FUEL CAPACITY**
40,000 gallons

**POTABLE WATER**
2,800 gallons

**LUBE OIL**
700 gallons

**MAIN ENGINES**
2 Caterpillar 3412

** AUXILIARY ENGINES**
2 Caterpillar 3304

**PROPPELLERS**
Twin-screw, 5-bladed stainless steel

**HORSEPOWER**
1,248 maximum continuous BHP

**REDUCTION GEAR**
Twin Disk MG 540, ratio 6:18:1

**TOWING WINCH**
Markey TYS-24, single drum with a pendant drum

**TOWING WIRE**
1 @ 1,700' of 1 1/2" wire rope
Pendant: 500' of 1 3/8" wire rope

**EMERGENCY TOW LINE**
400' of 6" nylon line
Line throwing gun

**BOLLARD PULL (calculated)**
25,000 lbs. ahead
18,720 lbs. astern
(bollard pull will vary slightly by vessel)

**NAVIGATION/COMMUNICATION EQUIPMENT**
- Radar - 2 Furuno FR-8100-D
- Loran - Furuno C-Plotter LP 1000
- GPS - Trimble Navtrac XL
- VHF - 2 SEA 156
- SSB - SEA 330
- Satellite communication and Sperry gyro compass MK-37

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Crowley’s active tug and barge fleet of over 200 vessels includes tugs to 7,200 horsepower, occurring deck barges with single, double, or triple decks, ranging to 730 feet in length; harbor/tower deck barges; house barges; and oil barges to 16,200 MT dwt. Crowley also operates 4 container and RoRo ships, including owning and chartered vessels, to serve the Caribbean, Central American, and South American liner trades, as well as tankers in Jones Act tanker trades.