

# NORDBERG MANUFACTURING CO.

DIESEL ENGINES--COMPRESSORS--HOISTS--TRACK MACHINERY  
 SYMONS CRUSHERS AND SCREENS--MARINE ENGINES  
 BASIC PROCESSING AND SPECIAL MACHINERY

Cable Address:  
 "NORDBERG MILWAUKEE"  
 Milwaukee Telephone  
 SHERIDAN 4-2348

REFER TO SUBJECT OR  
 INDIVIDUAL WRITING

MILWAUKEE, WIS. U.S.A.

ADDRESS ALL COMMUNICATIONS  
 TO THE COMPANY

31895

February 11, 1959

Lloyd's Register of Shipping  
 17 Battery Place  
 New York 4, New York

Attention: Mr. C. Macpherson

Subject: M.V. "TENNA DAN" - Built 1944  
 (ex HOUGH TRADER ex CAPE TRAFALGAR)

Gentlemen:

We acknowledge receipt of your letter of February 4, 1959. We are enclosing one (1) copy of Technical Memorandum TM-165, Torsional Critical Speed Analysis, TSM-216 Diesel Propelling Engine for United States Maritime Commission, Order No. 31715 for Pennsylvania Hulls 227 and 228.

These engines, Order No. 31895, Serial Nos. 21667/8 are of the Nordberg two-cycle, single-acting trunk-piston type running at 220 rpm normal load with a bore of 21 1/2" and a stroke of 29" and an initial pressure of 800 lbs. when delivering 110% load. These engines are similar to Order No. 31715 except the bore is increased from 21" to 21 1/2" and a Farrel-Birmingham Company reduction gear was used in place of the Westinghouse reduction gear.

We used the enclosed TM-165 for these vessels as there would be very little difference in the torsional analysis.

Yours very truly,

NORDBERG MANUFACTURING COMPANY

*Wm. J. Johnson, Jr.*

Wm. J. Johnson, Jr.  
 Head of Marine Installation

WJJ:sr  
 Enc.



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