

*Pacific Southwest Region*  
**HOLMES & NARVER, Inc.**

ENGINEERS-CONSTRUCTORS

*405904* *R* *DN* *WHD*

TO: D. T. Robbins, Chief Design Engineer JOB: 884  
 FROM: C. L. Coray, Chief of Operations RE: FAILURE OF CYLINDER LINERS - CMR DIESEL ENGINES

DATE: 16 February 1953

Attached hereto are two (2) reports from Smith-Emery Company showing the determinations made by them with respect to our lube oil and diesel fuel used at Jobsite. Our Purchase Order to Smith-Emery asked for additional information as to whether these samples are comparable to the samples analyzed in June and the effects of oil similar to the samples submitted on the chrome plated cylinder liners, and if possible, a determination of the cause of the excessive wear on the cylinder liners.

It is understood from Smith-Emery that there may be considerable delay in furnishing a determination on the above listed questions.

I also enclose a copy of letter addressed to Mr. Holland on the general subject of our excessive wear.

Mr. H. D. Baker, of National Metal & Steel Corp., had indicated his willingness to help us interpret the findings of Smith-Emery. He has indicated to me his belief that a sulphur content of more than .5% in the fuel oil might cause us trouble unless we use a lubricating oil with a high detergent content.

Our next cargo ship for Jobsite leaves approximately March 10th. It is highly desirable that a shipment of a proper oil for our engines be made at that time if it is indicated that the present oil is not thoroughly satisfactory. Any assistance your department can give us in deciding at the earliest possible moment if we should ship a high detergent oil would be appreciated. In the meantime, we will furnish any further information from Smith-Emery as soon as it is received.

*C. L. Coray*  
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 C. L. Coray

CLC:nr

Encl. (3) 2 cyps Smith-Emery report dtd 2/13/53  
 1 cpy ltr frm Nat'l. Metal & Steel Corp.  
 dtd 2/4/53

cc: D. C. Van Dine, wo/Encl.  
 J. H. Manning, "  
 David Narver, Jr., "  
 Central Files, "  
 Constr.-Oper.(2) "

NATIONAL ARCHIVES  
 REPOSITORY PACIFIC SOUTHWEST REGION  
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