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Intelligence Division,
Naval Staff,
Admiralty, S.W.1.
~~XXXXXXXXXXXX~~

3rd February, 1943.

Dear Mr. Shepard,

With reference to your letter of the 22nd January, 1943, the estimated oil consumptions of the German and Italian Navies are calculated on the anticipated movements supplied by the Operational Intelligence Centre of the Naval Intelligence Division.

A typical sheet showing the calculation for the German Navy for the month of October is attached.

It will be noticed that no figure for the expenditure of oil for ships when in harbour is given. We have no information on this point, but it is considered that the expenditure will be covered by the fairly generous figures used for calculating the amount consumed at sea.

Since this list was prepared, the assessment of probable oil expenditure has been reconsidered, and we have come to the conclusion that the allowance made for auxiliary craft such as minesweeping trawlers, patrol vessels and various miscellaneous craft may be a good deal too high. We have therefore considered that only half of these specified vessels are oil consumers (the other half being coal or gas producer driven). Thus although we consider 10 tons a day a fair average for these craft, on the new assessment and for future forecasts it would come to the same thing if - for the sake of convenience - we considered the whole lot to use 5 tons of oil per day.

The revised estimates for the six months ending 30th April, 1943, are now:

<u>Germany</u>	- Diesel Oil	290,000 tons
	Fuel Oil	484,000 tons
	TOTAL:	<u>774,000 tons</u>

Italy - The original Italian estimates for the six months ending 30th April 1943 have also been revised in the light of additional operational intelligence due to the North African campaign. The revised figures are:

Petrol	4,500 tons
Diesel	22,500 tons
Oil Fuel	191,500 tons
TOTAL:	<u>218,500 tons</u>

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Japan

- We have no operational figures for Japan.

By comparing the horsepower of the Japanese Navy with that of the British Navy, the estimated oil consumption figure was taken as the same proportion of the oil expenditure of the ~~British~~ ^{British} Navy during its first year of the war. ₈₂₁₇₁₃₆

The estimated figure for the six months ending 30th April, 1943, is 2,000,000 tons.

From what Mr. Bruce said at the meeting, it was understood that the American Oil Committee did not wish to have a copy of a complete estimate for a year, but details of the method of calculation employed.

However, if any further information is required we shall of course be pleased to supply all we can.

Yours very truly,

B. W. CANNAN

Commander, R.N.

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OIL CONSUMPTION

GERMAN NAVY

MONTH: OCTOBER 1942

SECRET

SHIP	NO.	DAYS AT SEA	SPEED	TONS/ DAY	OIL FUEL	DIESEL	REMARKS
TIRPITZ	1	3	20	270	810		
SCHLESWIG HOLSTEIN	1	-	-	-	-		
SCHLESIEN	1	2	15	100	200		
GNEISENAU	1	-	-	-	-		
SCHARNBORST	1	4	20	265	1060		
LUTZOW	1	-	-	-	-		
ADMIRAL SCHEER	1	4	20	120		480	
ADMIRAL HIPPER	1	5	20	265	1325		
PRINZ EUGEN	1	5	20	265	1325		
SEYDLITZ	1	-	-	-	-		
NURNBURG	1	10	15	60	600		
EMDEN	1	-	-	-	-		
KOLN	1	-	-	-	-		
LEIPZIG	1	7	15	60	420		
GRAF ZEPPELIN	1	-	-	-	-		
DESTROYERS	19	6	20	110	12540		
TORPEDO BOATS	36	5	15	24	4320		
RAIDERS	2)	30)	10)	15)			
	1)	10)	10)	15)		1140	
	1)	6)	15)	15)			
E-BOATS	65	6	25	7	-	2730	
M CLASS M/S	75	6	12	5	-	2250	
R-BOATS	100	8	10	3	-	2400	
M/S TRAWLERS	300	10	8	10	30000		
PATROL VESSELS	300	10	8	10	30000		
A/S TRAWLERS	40	5	8	10	2000		
MINELAYERS	8	12	12	25	2400		
ERRBRECHER	45	8	8	10	3600		
MISCELLANEOUS	50	4	8	10	1200		
HARBOUR DEFENCE CRAFT	350	10	8	10	35000		
U-BOATS (OPERATING)	110	30	7	5		16500	
U-BOATS (TRAINING, ETC.)	140	20	10	5		14000	
					126600	39500	

SAY

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