

COPY

EUROTANK

I.

Reid
3 Oct 1945

30/HB6-18

Oil Refineries

Information required 000281
Date June 19th, 1945.

1. Name of Refinery:

Eurotank
Europäische Tanklager- und Transport
Aktiengesellschaft, Zweigniederlassung
Hamburg,I. Winkler-Koch Cracking Plant.

2. Full name of owners:

Crusader Petroleum Industries Ltd.,
London W.C.2.

3. Location:

Hamburg-Waltershof, New Petroleum Harbor.

4. Capacity for Intake:

a) Crude Oil: 300 000 to per annum
b) Topped Crude: 225 000 " " "

5. Crude Oil Feed:

Analysis of German Crude Oil, Field:
Nienhagen near Hannover

spez.grav.at 15° C	0,8812
water and sediment	
(centrifugal method)	0,50 %
viscosity at 20° C	5,0 E
pour point	- 13° C
sulphur	0,66 %
paraffin content	2,76 %
Conradson Test of Crude Oil	3,70 %

Engler Destillation:

I.G.P. 59° C

100	3,0 vol. %
150	8,0
200	15,5
250	22,0
300	31,0
350	43,0
360	49,5.

6. Products to be made:

see appendix

7. Source of Crude Feed:
Give Field of Origin
and Type of Crude

Nienhagen near Hannover.

8. Source of other Feed Stock:

The plant can be used to work up all kinds
of different crude oils and/or topped crude
e.g. Reitbrook, Heide, a.s.o.
East Texas, Gulf Coast -"-

9. Available Tankage:

a) now 16 tanks specified as below:

		<u>cu.metres</u>		<u>steam coils</u>	<u>products for which suitable</u>
1.	24	3950	I	} yes	crude oil or fuel oil
2.	25	3950	I		" " "
3.	17	1500	I		gasoline - "
4.	120	800	I		kerosene - gas oil
5.	40	1750	I	} no	gasoline, kerosene, gasoil
6.	42	1100	I		" " "
7.	4	700	I		" " "
8.	112	400	I		" " "
9.	114	400	I		" " "
10.	128	800	I		" " "
11.	129	800	I		" " "
12.	13	200	I		" - gasoil
13.	140	80	I		light gasoline
14.	141	80	I		" "
15.	144	80	I		" "
16.	145	80	I		" "
		<u>16 670</u>			

b) expected to be repaired: 21 tanks

1.	34	7700	I	} yes	crude oil or fuel oil
2.	121	800	III		gas oil
3.	123	800	III		" "
4.	118	1100	III		fuel oil
5.	20	110	III		gas oil
6.	12	3300	I		gasoline - gas oil
7.	9	1500	I		" - " -
8.	2	3100	I		" - "
9.	125	800	III		gas oil
10.	109	400	III	} no	"
11.	210	300	III		"
12.	23	3950	I		gasoline
13.	10	1500	I		" - gas oil
14.	45	1100	I		" "
15.	102	400	I		" "
16.	103	400	I		" "
17.	111	400	I		" "
18.	115	400	I		" "
19.	110	400	I		" "
20.	1	3100	I		" "
21.	5	2000	I		
		<u>33560</u>			

10. Type of Plant
in usable condition:

The winkler-Koch plant is a modern combined atmospheric distillation cracking and reforming unit with a vacuum plant to reduce the residue from the cracking unit to asphalt.

The treatment of crack gasoline takes place in the Laohman unit with zinc chloride in the vapor phase and with doctor solution in a sweetening plant. Straight run gasoline and kerosene will also be treated with doctor's solution in the sweetening plant.

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11. Condition of
Transport Facilities:

crude oil a.s.o. by water or road.
no tankcars available.

State of Facilities for Despatches:

<u>rail</u>	<u>road</u>	<u>water:</u>
damaged to 90%	o.k.	o.k.

12. Auxiliary Equipment:

Pumps in good condition, steam operated.

3 boilers with combined oil and gas burners
(one of them must be repaired)
17,5 atü, 350°C, 20 to/steam/h each.

2 boilers for coal heating,
16 atü, 350° C, 20 to steam/h each.

13. Power Supply:

By Hamburg Elektricitiy Works, sufficient.

14. Loading Beaks:

<u>rail tank cars</u>	<u>raad tank wagons:</u>
now: no	yes

15. Other loading arrangements: yes, by water.

16. Packaging Facilities:

destroyed.

17. Package Manufacture:

no. Manufacturers: Mauser-Werke, Harburg.
Lubeca-Werke, Lübeck
Dpbbertin & Sohn, Wilhelms-
burg.

18. Personngl.

now 150
120 additional
270

Addresses of the technical staff:

Dipl.Ing. Erwin Bockelmann, Clärchenstr.2
" Hans Paschen, Pfeilshoferweg 22
Dr.Walter Müller, im Grund (Sasel).
Walter Schmidt Köhlflethdamm 3 "
Carl Piefke " 4
Heinz Stiegmann, Elisenstr. 10

19. Records:

yes.

So far as not destroyed available.

Europäische Tanklager- und Transport
Aktiengesellschaft
Zweigniederlassung Hamburg

Europäische Tanklager- und Transport
Aktiengesellschaft, Zweigniederlassung
Hamburg, Hamburg 36, Alsterufer 4-5

I. WINCKLER-KOCH-CRACKING
PLANT

A P P E N D I X

REFERRING TO QUESTION NO 6

a) Yields of the Nienhagen crude oil by different production methods:

Gasoline 160° C FBP	Motor Gasoline weight %	Kerosene weight %	Gasoil weight %	Fuel oil weight %	Asphalt weight %	Gas and Loss weight %
-	45.0	-	-	45.0	-	10.0
-	46.0	-	-	25.5	18.5	10.0
-	43.0	5.0 (200° IBP)	-	23.5	18.5	10.0
10	28.0	9.5 (160° IBP)	-	24.0	18.5	10.0
-	37.0	-	20.0	14.5	18.5	10.0
-	31.5	9.5 160° IBP)	13.0	16.0	20.0	10.0

b) Specifications:

	Gasoline 160° FBP	Motor Gasoline	Kerosene	Gasoil	Fuel Oil	Asphalt °C
Spec. Grav. 15° C	0,712	0,740	0.800/0.815	0.840/0.850	0.990	
Flashpoint °C	-	-	45°	55°	75°	85 65
Pourpoint °C	-	-	-	-	-15 -10	-4
Calour	+ 30	+ 30	+ 30	21	U 1 U 2	-
Viscosity	-	-	-	-	1,4/20 1,8/20	35/50
I.B.P. °C	38	35	163	195	215 235	-
up to 100° C	43%	30%	-	-	-	-
up to 300° C	-	-	-	-	90 % 75 %	-
F.B.P. °C	160	200	265	255	325 335	-
Octane-Nr. (Research)	54	63	-	-	-	-
Ceten-Nr. (Mardor)	-	-	-	-	74 70	-
Melting Point	-	-	-	-	-	25/30 / 40/50
Breaking-Point	-	-	-	-	-	-1 0

II.

Oil Refineries

Information required

Date: June 19th, 1945.

1. Name of Refinery:

Eurotank

Europäische Tanklager- und Transport-Aktiengesellschaft, Zweigniederlassung Hamburg, Hamburg.

II. Foster Wheeler Distillation Plant.

2. Full name of owners:

Crusader Petroleum Industries Ltd.,
London W.C. 2.

3. Location:

Hamburg-Waltershof, New Petroleum Harbor.

4. Capacity of Intake:

a) Crude Oil 180 000 tons per annum
b) Topped crude -

5. Crude Oil Feed:

Analysis of German Crude Oil,
Field: Nienhagen near Hannover

spez.grav. at 15° C	0,8812
water and sediment	
(centrifugal method)	0,50 %
viscosity at 20° C	5,0° E
pour point	- 13° C
sulphur	0,66 %
parafin content	2,76 %
Conradson Test of crude oil	3,70 %

Engler Distillation:

I.A.P. 59° C	
100	3,0 vol. %
150	8,0
200	15,5
250	22,0
300	31,0
350	43,0
360	49,5.

6. Products to be made: see appendix.

7. Source of Crude Feed: Nienhagen

8. Source of other Feed Stocks: The plant is suitable for all kinds of crude oils. Five fractions can be taken off.

9. Available tankage: a) now 16 tanks specified as under:

	cu.metres	fitted with steam coils	products for which suitable:
1.	3950	} yes	crude oil or fuel oil
2.	3950		" " " "
3.	1500		gasoline " " "
4.	800		kerosene " gas-oil

-2-

	cu.metres	steam coils	products for which suitable
transp.	10200		
5.	1750	no	gasoline, kerosene, gas oil
6.	1100		" " "
7.	700		" " "
8.	400		" " "
9.	400		" " "
10.	800		" " "
11.	800		" " "
12.	200		" - gas oil
13.	80		light gasoline
14.	80		" " "
15.	80		" " "
16.	80		" " "
	<u>16670</u>		

b) expected to be repaired: 21 tanks

1.	7700	yes	crude oil or fuel oil
2.	800		Gas oil
3.	800		"
4.	1100		fuel"oil
5.	110		gas oil
6.	3300		gasoline - gas oil
7.	1500		" - "
8.	3100		" - "
9.	800		gas oil
10.	400		"
11.	300		"
12.	3950	no	gasoline
13.	1500		" - gas oil
14.	1100		" - "
15.	400		" "
16.	400		" "
17.	400		" "
18.	400		" "
19.	400		" "
20.	3100		" "
21.	2000		" "
	<u>33560</u>		

10. Type of Plant
in usable condition:

The Foster Wheeler Plant is a modern
atmospheric oil heated pipe still.

11. Condition of Transport
Facilities:

Crude oil a.s.o. by water or road.
no rail tank cars available.

State of Facilities for Despatches:

<u>rail</u>	<u>road</u>	<u>water:</u>
damaged	o.k.	o.k.
to 90%		

12. Auxiliar Equipment:

Pumps in good condition, steam operated.
 3 boilers with combined oil and gas burners
 (one of them must be repaired)
 17,5 atü, 350° C, 20 tons steam/h each.
 2 boilers for coal heating.
 16 atü, 350° C, 20 tons steam/h each.

13. Power Supply:

By Hamburg Elektriccity Works, sufficient.

14. Loading Racks:

rail tank cars: road tank wagons:
 now: no yes.

15. Other loading arrangements:

yes, by water.

16. Packaging Facilities:

destroyed.

17. Package Manufacture:

no. Manufacturers: Mauser-Werke, Harburg
 Lubeca-Werke, Lübeck
 Dobbertin & Sohn, Wilhelmsbg.

18. Personnel:

no 150. No additional hands required.

Names and addresses of the Technical Staff:

Dipl.Ing. Erwin Bockelmann, Clärohenstr.2)	} Ham- burg
" Hans Paschen, Pfeilshoferweg 22)	
Dr.Walter Müller, im Grund, Sasel	
Walter Schmidt, Köhlfleedamm 3	
Carl Piefke " 4	
Heinz Stiegmann, Elisenstr. 10	

19. Records:

yes

As far as not destroyed available.

Europäische Tanklager- und Transport
 Aktiengesellschaft
 Zweigniederlassung Hamburg

Europäische Tanklager- und Transport-
Aktiengesellschaft, Zweigniederlassung
Hamburg, HAMBURG 36, Alsterufer 4-5

II. FOSTER WHEELER
DISTILLATION PLANT.

A P P E N D I X

referring to question No. 6

a) Yields of the Nienhagen crude oil:

Gasoline	10.0 weight %
Kerosene	19.0 "-
Dieseloil	14.0 "-
Topped Crude	56.0 "-
Loss	1.0 "-
	<u>100.0</u>

b) Specifications:

	Gasoline	Kerosene	Dieseloil
Spec. Grav. 15° C	0,712	0.800	0.850
Colour	+ 30	+ 21	U 2
Flash Point ° C	-	45° C	higher than 65°
Viscosity 20° C	-	-	1.8° E
Pour Point (A.S.T.M.)° C	-	-	- 10
Octane-No. (Research method)	54	-	-
Ceten-No. (Mardar)	-	-	70
I.B.P. ° C	38° C	163° C	235° C
100° C	43%	-	-
300° C	-	-	75 %
F.B.P. ° C	160° C	265° C	335° C
