

INTERNATIONAL SMELTING AND REFINING COMPANY

WHITE LEAD DEPARTMENT

EAST CHICAGO, INDIANA

ANNUAL REPORT

YEAR 1942

PNYC00001603

INTERNATIONAL SMELTING AND REFINING COMPANYWHITE LEAD DEPARTMENTEAST CHICAGO, INDIANASUMMARY OF WHITE LEAD PLANT OPERATIONSYEAR 1942PRODUCTION:

Total production of White Lead for year 7,216 tons

The plant operated during the year at the following rates:

January	1st to March	31st	32 tons daily rate
April	1st to April	30th	26 " " "
May	1st to May	31st	18 " " "
June	1st to June	30th	30 " " "
July	1st to September	30th	Shut Down
October	1st to December	22nd	24 tons daily rate
December	23rd to December	31st	Shut Down

During the shut down, the period from July 1st, 1942 to September 30th, 1942, preparations were made to convert the White Lead cell room to a Betts Refining unit. The actual conversion took place between December 23rd, 1942 to December 31st, 1942, and the first Betts Lead was deposited on January 2nd, 1943.

Average operating data for year was as follows:-

Average daily production rate	27 tons
Average amperes	4,815
Average current density amperes/sq. ft.	32.95
Average pounds of White Lead/D.C. Kilowatt Hour	3.13

NEW EQUIPMENT INSTALLED DURING YEAR:

1. Storage equipment for linseed oil
2. Air press for White Lead bags
3. Whizzer on Raymond Mill
4. Conversion of cell room to Betts Refinery
5. Electric hoist for anodes

LABOR:

Common labor rate increased March 1st to 72¢ per hour
The six day week was established in August, which is equivalent to an increase of 6¢ per hour on the common labor rate

Minimum number of direct and indirect hourly employees	August 31st	10
Maximum number of direct and indirect hourly employees	April 30th	71
Average number of direct and indirect hourly employees	52.4 avg. hrs. worked/week	43.4
Average number of direct and indirect salary employees	17.7 avg. hrs. worked/week	40

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Sheet #2 - Summary of White Lead Plant Operations - Year 1942

ELECTRIC POWER:

All power was purchased from the Northern Indiana Public Service Company.

Total Kilowatt hours for year	6,690,217
Average cost for year per A.C.K.W. Hour	.008206
" " " " " D.C.K.W. Hour, delivered to cells	.010213

FUEL:

Total amount of coal used during year at boiler house	3,966* tons
Average cost per ton	\$ 3.826

* 50.11% of steam generated was used by other departments for heating.

OPERATING COST:

Average production cost per ton barrelled	36.15
Average production cost per ton bagged	39.66
Average pounds of metallic lead charged per pound White Lead produced	.7831

		<u>Per Pound</u>	<u>Per Ton</u>
Average net sales price			
less cash discounts		7.613%	\$ 152.26
Average cost of goods sold	6.851	\$ 137.02	
Less depreciation	.215	6.636%	132.72
Average operating margin		.977%	\$ 19.54

MAJOR EXPENDITURES:

A summary of the major items of cost for the year is given below:-

<u>Item</u>	<u>Cost</u>	<u>% of Total Cost</u>
Pay Roll Labor	83,210.73	30.595
Salaries	35,725.98	13.136
Coal	7,640.73	2.809
Acetic Acid	5,804.07	2.134
Sodium Acetate	2,068.73	.761
Soda Ash	664.91	.244
Barrels	7,096.41	2.610
Drums	4,416.15	1.624
Bags	8,179.05	3.007
Electricity	54,510.66	20.042
Linen	3,001.99	1.104
Taxes (property)	3,121.25	1.148
Unemployment Insurance Tax	2,367.31	.870
Old Age Annuity Tax	1,160.27	.426
Insurance	1,501.62	.552
Group Insurance	740.51	.272
Depreciation	31,028.79	11.409
Other Items	19,736.32	7.257
	<u>\$ 271,977.48</u>	<u>100.00</u>

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SUMMARY OF WHITE LEAD PLANT OPERATIONS

YEAR 1942

METALLURGICAL BALANCE

		<u>Metallic Lead Pounds</u>	<u>White Lead Pounds</u>
Anode Lead			
Receipts (new)		19,270,337	
Less Returns: Scrap Anodes	7,972,232		
Rejects	66,143		
Dirty White Lead	63,853		
Oliver Filter Cake	109,865		
Dirty Lead-in-Oil	2,150		
Scrap Lead	1,238		
Betts Lead	12,043	8,227,524	
Net Receipts		11,042,813	
Anodes on Hand, January 1st, 1942		260,508	
		11,303,321	
Anodes on Hand, December 31st, 1942		1,733	
Lead Charged		11,301,588	14,178,850
In Process, January 1st, 1942		252,249	315,311
		11,553,837	14,494,161
In Process, December 31st, 1942			
Settling System, etc.	48,000	60,000	
In Bismuth Slimes	3,906	4,882	
Losses Manufacturing	24,841	30,968	
Losses in Bismuth Slimes	22,512	49,577	62,164
Production		11,504,260	14,431,997
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14,431,997 ÷ 11,301,588 = 1.277 pounds of White Lead produced per pound of metallic lead charged.

Percent of Losses Per Pound
Metallic Lead Treated

Manufacturing	.2150
In Bismuth Slimes	.1948

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WHITE LEAD PLANT

<u>YEAR</u>	<u>CAPITAL INVESTMENT *</u>	<u>PROFIT</u>	<u>LOSS</u>	<u>NET</u>	<u>PER CENT RETURN</u>
1920	439,570.09		71,571.23		16.28
1921	530,313.82		238,001.74		44.88
1922	543,512.25	7,460.37			1.37
1923	546,772.02		25,991.35		4.75
1924	547,002.71	57,499.35			10.51
1925	558,999.59	57,778.45			10.34
1926	655,722.19	11,799.71			1.80
1927	675,538.05		70,643.34		10.46
1928	688,761.24	57,412.77			8.34
1929	710,989.90	51,431.56			7.23
1930	720,280.00		6,359.03		.88
1931	720,280.00	36,956.29			5.13
1932	720,280.00	24,519.53			3.40
1933	729,615.69	56,878.42			7.80
1934	731,811.74	55,004.37			7.52
1935	743,352.53	84,903.66			11.42
1936	773,081.27	56,922.08			7.36
1937	810,282.37		52,479.63		6.48
1938	815,442.23		18,909.75		2.32
1939	850,004.35	41,004.66			4.82
1940	852,541.81	30,765.22			3.61
1941	867,202.29	72,718.54			8.39
1942	896,798.91		9,579.78		1.07

Total

Investment
and Return

to Date \$ 896,798.91 \$ 703,054.98 \$ 493,535.85 \$ 209,519.13 23.36

* No allowance made for depreciation. For the period 1920 to 1942, inclusive depreciation charges totalled \$534,126.98.

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LEAD-IN-OIL PLANT

<u>YEAR</u>	<u>CAPITAL</u> <u>INVESTMENT</u>	<u>PROFIT</u>	<u>LOSS</u>	<u>NET</u>	<u>PER CENT</u> <u>RETURN</u>
1931	1,564.86	578.51			36.97
1932	1,564.86	7,800.18			498.46
1933	4,026.83	24,015.45			596.39
1934	4,026.83	20,328.31			504.82
1935	17,089.54	8,089.95			47.34
1936	17,089.54	17,520.77			102.52
1937	17,089.54	12,301.03			71.98
1938	17,089.54		48,696.56		284.95
1939	17,089.54		4,555.74		25.66
1940	17,930.30		5,024.52		28.02
1941	24,580.77	1,450.48			5.90
1942	26,350.85		1,794.67		6.81
Total Investment and Return to Date	26,350.85 =====	92,084.68 =====	60,071.49 =====	32,013.19 =====	121.49 =====

mb 2/15/43

cc: Mr. J.R. Hobbins
R.E. Dwyer,
F. Laist


Plant Manager

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