

Extract from Abadan Memorandum No. 36127 dated 14-3-45.

Subject: Lead Hazard.

"Considerable improvements have been made in our operation in general, but one aspect still causes concern, that is the frequency with which abnormal lead in urine tests are obtained, from the P.O.D workers. These results have been obtained despite the fact that the men have had very slight contact with leaded spirit. One aspect, which we have as yet had insufficient time to examine, is the possibility of ingestion of lead derived fromterne plate used for can manufacture. We are therefore extending our control during March in the P.O.D. to include:-

- (1) Press tool operators - exposed to terne plate only.
- (2) Solder shop operators - exposed to terne plate and solder.
- (3) Filling operators - exposed to terne plate and leaded spirit.

At present some of these men are provided with barrier cream and gloves. The cream may not be effective over the whole day and gloves wear out very rapidly. Washing facilities are adequate but complete supervision of a large group of men is somewhat difficult.

It must be emphasised that none of the men in the appended list show the slightest symptoms of lead intoxication.

Results for the selected men are appended".

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LEAD IN URINE RESULTS.P. O. D. FILLING WORKERS.Mgms. Pb./Litre.

| <u>No.</u> | <u>1944</u><br><u>June</u> | <u>July</u> | <u>Aug.</u> | <u>Sept.</u> | <u>Oct.</u> | <u>Nov.</u>                | <u>Dec.</u>         | <u>1945</u><br><u>Jan.</u> | <u>Feb.</u> | <u>Mar.</u> |
|------------|----------------------------|-------------|-------------|--------------|-------------|----------------------------|---------------------|----------------------------|-------------|-------------|
| A.501      | <u>0.13</u>                | <u>0.12</u> | 0.07        |              | 0.13        | <u>0.14</u><br><u>0.14</u> |                     | 0.05                       |             |             |
| A.503      | <u>0.22</u>                | <u>0.20</u> | <u>0.13</u> | 0.08         | <u>0.18</u> | <u>0.11</u>                |                     | 0.12                       | 0.06        |             |
| A.504      |                            | 0.06        | 0.08        | <u>0.20</u>  | 0.04        | 0.06                       |                     | 0.05                       | 0.09        |             |
| A.525      |                            |             | 0.05        |              | 0.03        | <u>0.11</u><br><u>0.14</u> |                     | 0.02                       | <u>0.14</u> |             |
| A.528      |                            |             | 0.08        |              | 0.03        |                            | 0.13<br><u>0.12</u> |                            | <u>0.12</u> |             |
| A.563      |                            |             | <u>0.11</u> |              | 0.23        | <u>0.13</u>                |                     | 0.12                       |             |             |
| B.504      | <u>0.11</u>                | 0.07        | 0.08        | <u>0.17</u>  | 0.06        |                            | 0.10<br><u>0.12</u> |                            | 0.08        |             |
| B.517      | 0.09                       | <u>0.17</u> | <u>0.12</u> | 0.13         | 0.09        |                            | 0.18<br><u>0.12</u> |                            | 0.05        |             |
| B.663      | 0.04                       |             | <u>0.16</u> | <u>0.11</u>  | 0.07        |                            |                     |                            |             |             |
| A.601      |                            |             |             |              |             |                            |                     |                            | <u>0.11</u> |             |
| A.507      |                            |             |             |              |             |                            |                     |                            | 0.05        |             |

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