

# SPOORNET – FAX/FAKS

Telephone (012) 6719 362 fax number(012) 6719 351

Ref: S.RM (WE) 15/8/10/6/1/2

Date: 23<sup>rd</sup> September 1996

To fax number: 011 465 2381

Addressed to: Transvaal Metal Spraying Services  
Attn: Mr. Alain De Comormond

From: V.I.T. Owner (Surface Protection)  
Spoornet (Rolling Stock) CENTURIAN

## INSULTEC, HEAT RETARDING COATING FOR PETROL TANK WAGONS.

We report back on your Insultec radiant heat barrier coating applied to the petrol tank wagons in January 1996.

The tank wagons convey petrol from the coastal depots at Port Elizabeth and East London to Upington in the Northern Cape Province, traveling a distance of approximately 1,000 kilometres.

The excessively high ambient temperatures attained while in transit and during the waiting time at Upington, before off loading, results in the petrol attaining a temperature in excess of 45<sup>o</sup>C. These high temperatures result in evaporation and petrol loss.

The application of the Insultec system to the petrol tank wagons gave a considerable reduction in the temperature of the petrol (average of 10<sup>o</sup>C). The test conducted were very satisfactory and twenty tank wagons will be coated with this system.

During the recent inspection of the tank wagons, it was noticed that the top coat has a tendency to retain dirt. To overcome this problem, we will be applying Insultec clear glaze as a final coat. It was interesting to note however that although the coating was covered with dirt and dust the tank body remained cool in direct sunlight.

We will carry out a series of test again during January 1997 and you will be kept informed.

Kind regards,

B.E Berner  
V.I.T. OWNER (Surface Protection)

Hoofbestuurder (Rollende Materiaal)  
Posbuz 30824  
BRAAMFONTEIN  
2017

SPOORNET  
N Divisie Transnet Beperk  
Registraslenommer 90/00900/06

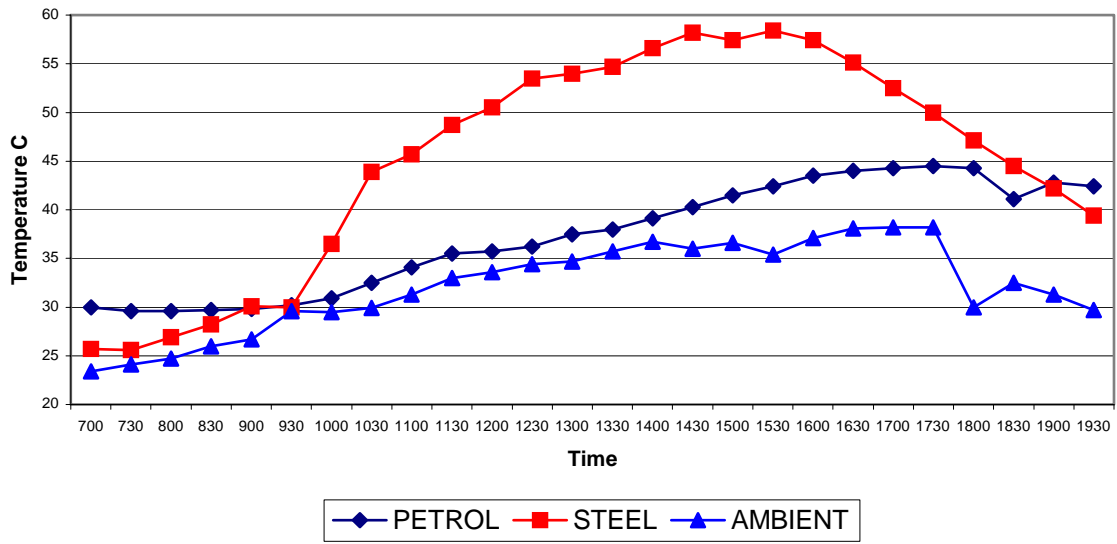
General Manager (Rolling Stock)  
P.O. Box 30824  
BRAAMFONTEIN  
2017

SPOORNET  
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Registration number 90 00900



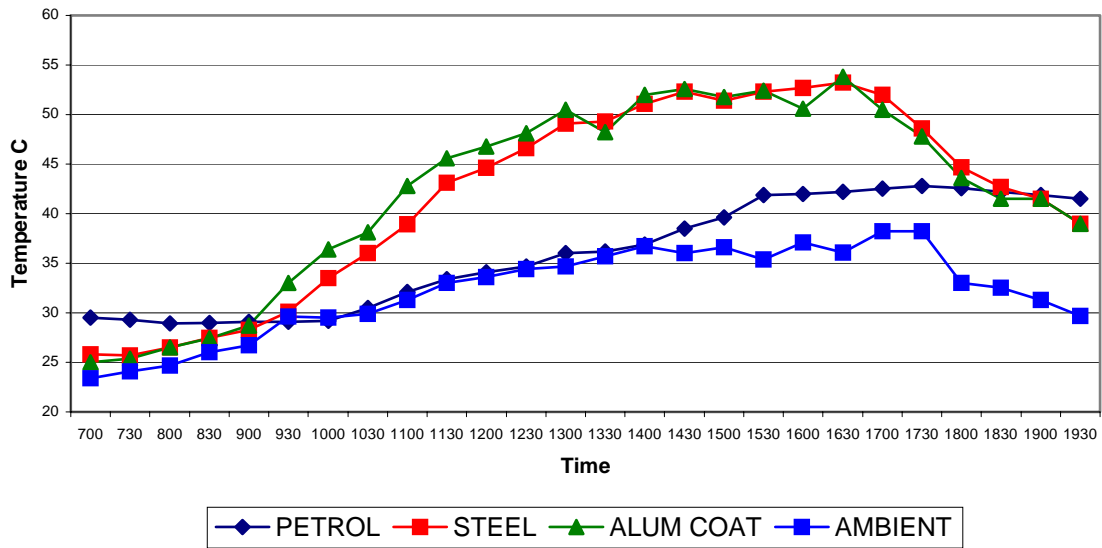
Petrol Wagons: 10C cooler ... less petrol lost

**WAGON #38-500 418 (Upinton) - Graphite Grey -**

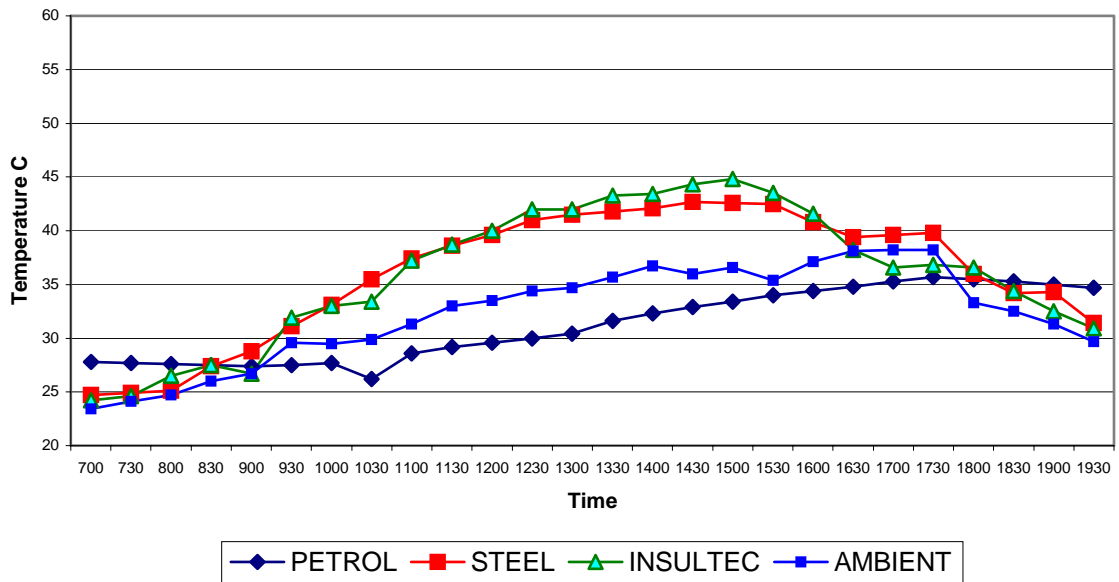


Petrol temperature is higher than ambient

WAGON # 38-505 541 (Upinton) - Aluminum -



WAGON # 38-501 317 (Upinton) - Insultec -



Petrol temperature is lower than ambient