



American Packing Industries (Philippines) Corporation

Km. 21 South Luzon Expressway, Samson Road, Brgy. Sucat, 1771 Muntinlupa City Philippines

Tel Nos.: (632) 807-6054; 807-6163; 807-6156; 807-6128

Fax No.: (632) 807-8662

E-mail.:

www.americanpackingindustries.com

File Copy

COMPLETION REPORT

Attention : Cirilo Lumangtad

Project : Restoration of Pump Casing (3) Units
a. Unit EN32-125-I IJL1060
b. Unit EN32-125-I IJL1060
c. Unit EN32-125-I – J51023

Client : JG Summit Petro Chemical Corporation

Completion Date : December 21, 2017

Reference P.O. : 4500017066

A. Scope of work:

- 1 Lot, Supply, Labor, Materials and Technical Supervision for restoration of Volute Casing, 3 Units,
- a. Unit EN32-125-I IJL1060
 - b. Unit EN32-125-I IJL1060
 - c. Unit EN32-125-I-J51023
- a. Pull-out of Casing.
 - b. Surface preparation by means of power tooling to have a minimum profile of 75 Microns at metal substrates.
 - c. Application of UPS 200 EG for rebuilding of worn and uneven surfaces, and will be dimensional finished with ring sized.
 - d. Application of UPS 205 FG to cover and protect the surface.
 - e. Full mechanical curing time atleast 48 hours.
 - f. Delivery to Client.

B. Methodology

Surface Preparation:

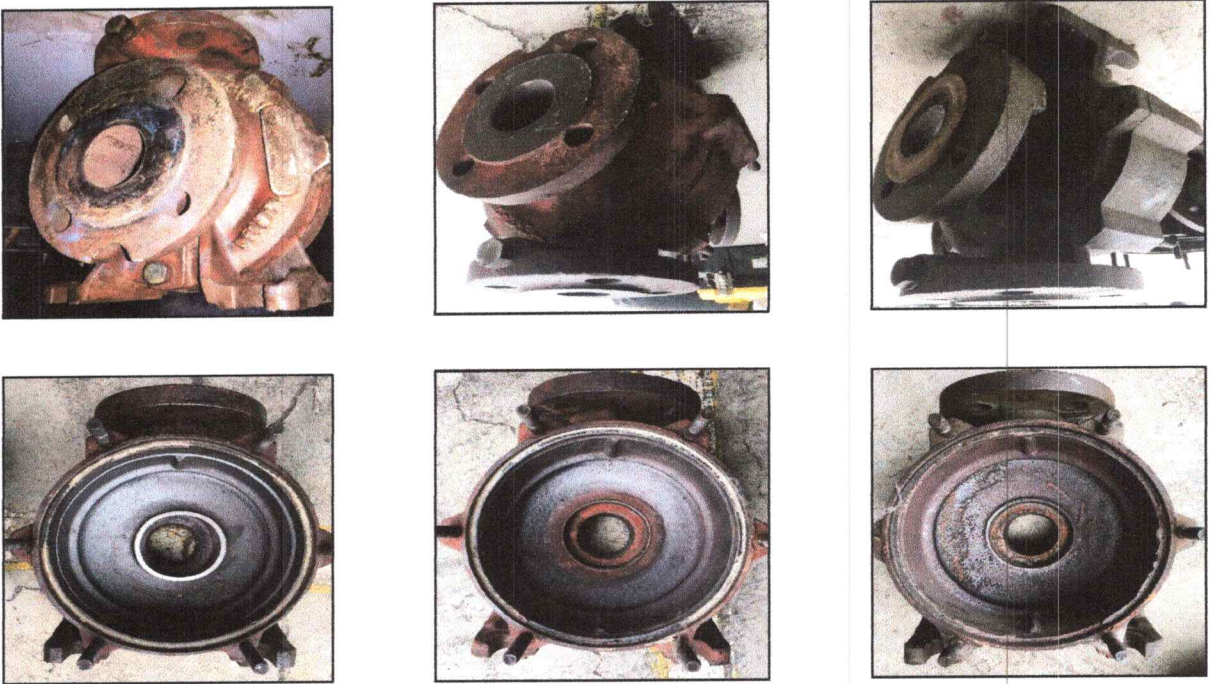
All dust and loose material should be scraped away. Oil and grease should be removed. Surfaces should be then be abrasive blast cleaned to near white metal as per ISO 8501:1. All loose abrasive dust and debris must be blown clear vacuum-cleaned away. Equipment that has been salt impregnated should, after blasting, be left overnight to allow salts to sweat from the metal. Alternately, surfaces should be warned with a blowtorch or similar to bring salts up to the surface. The surface should once again be blast cleaned. This procedure must be repeated until no further sweating of impregnated salt is evident

Application:

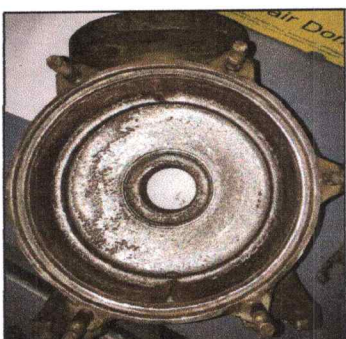
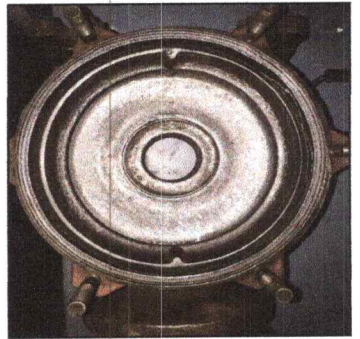
1. Application of UPS Ceramic Carbide Lining System Material: UPS 200EG Ceramic Carbide Wearing Compound. The mixed material should be pressed firmly onto prepared area; care should be taken to avoid air entrapment on deeply pitted surfaces. Application should be carried out as soon as possible after surface preparation is complete, and certainly the same day. Where a second layer of UPS 200 EG is required, this application must be carried out within the initial set time (60 minutes @ 20 degC or (68 deg F) of the first layer.
2. When over coating the UPS 200 EG with a fluid grade ceramic (UPS 205 FG) this should be carried out after 60 minutes and within 2 hours @ 20 deg C (68 deg F)).
3. Application of UPS 205 FG Abrasion Resistant Ceramic Carbide Fluid. The mixed material should be applied to prepared area using a clean brush or squeegee, application should be carried out as soon as possible after surface preparation is complete, and certainly on the same day, otherwise flash blasting will be necessary before application. In areas where second layer of UPS 205 FG is required, this application must be carried out with the initial set time (3 hours @ 20 deg C (68 deg F)) for the first layer, otherwise the surface must be lightly abraded or flash blasted.
4. After initial curing period of at least 4 hours at 20 deg C (68 deg F), raising the cure temperature progressively to 60 – 100 deg C (140 – 212 deg F) for up to 8 hours will result in improved mechanical, thermal and chemical resistance properties

C. Progress Photos

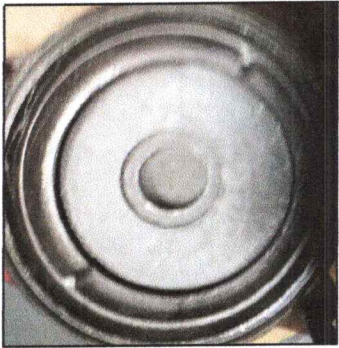
C.1. before:



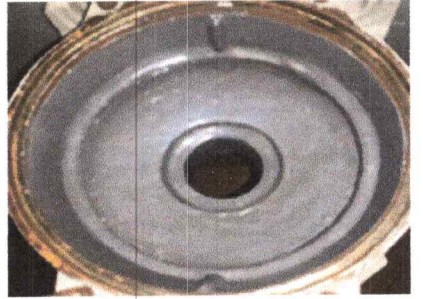
C.2. surface preparation. All loose abrasive dust and debris must be blown clear vacuum-clean away.



C.3. APPLIED UPS 200 EG: 'Ceramic Carbide Wearing Compound' is a high performance multi-purpose ceramic repair compound specifically developed for rebuilding metal components in fluid flow environment damaged by erosion and corrosion.

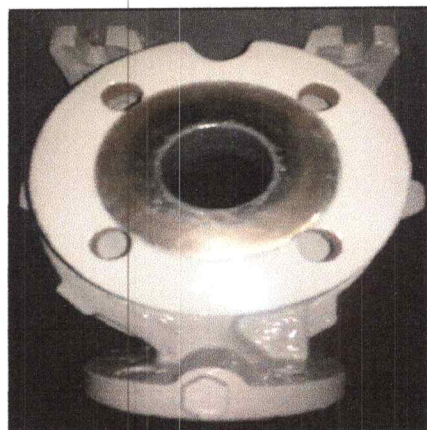


C.4. APPLIED UPS 205 FG. UPS 'Abrasion Resistant Ceramic Carbide Fluid' is a high performance fluid grade engineering resurfacing compound designed for use in fluid flow environments



Sincerely yours,
Jay Nicdao Jr.
TMG-Coats Div.

D. Delivery date: January 26, 2018



C.4. finished photos:



Industrial Sealing Products

American Packing Industries (Philippines) Corporation
Km. 21 South Luzon Expressway, Samson Road, Brgy. Sucat, 1771 Muntinlupa City Philippines
Tel Nos.: (632) 807-6054; 807-6163; 807-6156; 807-6128
Fax No.: (632) 807-8662
E-mail: www.americanpackingindustries.com

CERTIFICATE OF COMPLETION AND ACCEPTANCE

This is to certify that **American Packing Industries (Phil.) Corp.** has already accomplished the of
"Restoration of 3 Units of Volute Casing" in accordance to its recommended product specification
and general scope of work.

Attention	:	Cirilo Lumangtad
Project	:	Restoration of 3 Units of Volute Casing, EGB Circulating Pump
Client	:	JG Summit Petrochemical Corporation
Completion Date	:	December 21, 2017
Reference P.O.	:	No. 4500017066

SCOPE OF WORK: Supply of Materials & Technical Supervision necessary for the satisfactory
completion of Restoration of 3 Units of Volute casing using **Unique Polymer System** manufactured and
distributed products.

Sincerely yours,

Jay Madao Jr.

TMG-COITS Div.

Noted by

Giovanni Santos

AVP

Conforms:

(signature over printed name)

Date:

May 05 - 2018