

<b>Tracker Number</b>	<b>T58449</b>
<b>Pump Type</b>	<b>Labour 14DZTM</b>
<b>Serial Number</b>	<b>PT27631/2</b>
<b>Site Asset Number</b>	<b>P384</b>
<b>Site Location</b>	<b>To be confirmed</b>
<b>Atex Required</b>	<b>Unknown-please confirm</b>

Dear Sir,  
 We confirm receipt of this pump and quote you accordingly.



**Unit as received**

**Inspection Report**

Prior to disassembly the shaft was checked for and no axial or radial movement could be found  
 The unit was then fully dismantled, cleaned and inspected with the following found

- The wet end of the pump is in reasonable condition with only light wear found
- The mechanical seal appears worn and was contaminated with product.
- The shaft is worn on the mechanical seal NDE
- lip seal locations and will require metal spraying
- Both bearings appeared to be suffering from general operating wear



**Worn locations on shaft**



**Back plate**



**Impeller**



**Mechanical seal**



All major tolerance locations were checked and the following found  
The following readings were taken

Component Checked	Manufactures	Actual	Pass inspection
NDE bearing Housing	80.00mm	+0.02-+0.04 oval	No
DE Bearing Housing	72.00mm	72.00mm	Yes
DE Bearing location	35.00mm	+0.01	Yes
NDE Bearing Location	40.00mm	+0.01	Yes
Trueness of shaft			Yes

### Failure Analysis

No obvious reason for failure could be attained other than possible seal leakage  
The seal is to be sent to AES seals for analysis

### Repair Proposal

#### We propose the following scope of work

##### Supply and fit

- 2 Bearings – Free issue
- 2 Lip Seals - Free issue
- 1 Casing Gasket Free issue
- 1 Mechanical seal-Free issue
- 2 Bearing housing gaskets
- 2 Perspex Guards
- 1 Woodruff key

##### Other work required

- Metal spray shaft on NDE lip seal and mechanical seal location
- Sleeve DE bearing housing

The denco oilier fitted will be cleaned and reused

The unit on completion of rebuild will be performance tested and issued with certification prior to being spray painted

The pump will be built in conjunction with the Degussa end centrifugal repair standard

Please confirm that the reverse engineering methods used are satisfactory

**The price of the above repair is £                      Inc Carriage Excluding VAT**

Delivery – 2 Working Weeks from authorisation to proceed

Alternatively

We can supply a OEM shaft in place of metal spraying

**This will reduce the cost of the repair to £                      Inc Carriage Excluding VAT**

Delivery 4-6 Working Weeks from authorisation to proceed

Goods supplied as our standard terms and conditions. Terms 30 days.

We trust our quotation meets your approval. In the meantime no further action will be taken on this unit until your full instructions are received.

We regret that any pump you choose not to repair or has been deemed beyond economical repair will be subject to inspection/collection charges of £           **NETT.** This charge will be waived if a new unit is purchased from ourselves.

There will also be an additional cost of carriage incurred; should you request the return of the unit.

We offer a full installation and commissioning service on this type of pump. Whether it's a simple like for like swap or a brand new installation involving, mechanical, electrical and civil work. **PSRG** can offer –

**The complete service for industrial pumps!**

Please visit our website at [www.pumpgroup.co.uk](http://www.pumpgroup.co.uk) for up to date information on our company and [www.surpluspumps.co.uk](http://www.surpluspumps.co.uk) for information on our current range of surplus pumps.

Yours faithfully,

Steve Smith  
**Quotation Department**