



ILUKA

Scope of Works

Warman Bearing Assembly Overhaul

MPA-207-AD-10

**January 2007
V0.2**

AMENDMENT HISTORY

CLIENT NAME: Iluka Resources Limited

PROJECT NAME: Offsite Repairs Management

Whole of document

AMENDMENTS IN THIS RELEASE:

(Including problem or issues cleared and changes applied)

- X

APPROVED BY:

In accordance with the agreed sign-off procedures, the undersigned hereby approves and accepts this document on behalf of Iluka Resources.

Name: Geoff Dawes

Title: Manager Maintenance Systems & Offsite Repairs

Date:

REVISION HISTORY:

Version	Revision Date	Author(s)	Revision Notes
Draft V0.1	23/01/2007	G Dawes	Draft
V0.2	16/2/2007	G Dawes	Issued



Table of Contents

1. Scope Outline.....	3
2. Repair Scope.....	3
3. Repair Scope Variances.....	4
4. Exceptions to the repair scope.....	5
4.1 MATERIAL NUMBERS	5

1. Scope Outline

The purpose of this Scope definition is to outline the minimum technical requirements for the overhaul of a Warman Bearing Assembly from Iluka sites within Western Australia.

2. Repair Scope

Quote:

1. Receipt the item into the Vendors premises
2. Photograph item as received
3. All work quoted shall be to OEM specifications
4. Bearings to be removed
5. All seals are to be removed
6. Remove all grease nipples
7. Check end plates for damage or non conformance to OEM specification
8. Inspect Housing for Damage or wear
9. Inspect Shaft and dimensionally check against OEM specifications
10. Develop a detailed scope of work, including repair method, inspection and test plan as required, costing and lead time for the repair.
11. Submit the scope of repair and quotation to the OSRI manager for review and acceptance.

Rebuild

12. Upon acceptance of the quote by Iluka the OSRI manager will issue the order for the work to proceed.
13. Check all grease ports are free from any contaminates and housing is clean.



14. Install new grease nipples and test for flow of grease into housing, clean purged grease away. Grease should be the same as Iluka use on site to prevent any contamination or grease breakdown issues.
15. Install all bearings, seals , backplates as per OEM specifications into the housing
16. Install end plates.
17. The Warman bearing assembly shall be test run by the repairer for a period of 4 hours and temperature readings from both bearing areas taken and bearing temperatures must not exceed 65 degree Celsius.
18. Secure the free floating labyrinth on the wet end to prevent it from moving out of the housing seal area during transport.
19. The Warman bearing assembly shall be package to prevent damage during transport to the relevant Iluka site.
20. Sandblast & paint housing and end plates to Iluka Specification (ETS-005).

3. Repair Scope Variances

1. New shaft
2. New Housing
3. New End plates
4. New internal retaining plates

4. Exceptions to the Repair Scope

The possibility of exceptions can exist in any generic group of items and within the group of Warman bearing assemblies the Material numbers as itemised below will require prior written agreement as to the work scope required.

4.1 Material numbers,

- XXXXXXXXX
- XXXXXXXXX