



PROCESS SAFETY / TECHNICAL CLEANLINESS

Improvement to Filter technology for system reliability and efficiency.

PROJECT BACKGROUND

INITIAL SITUATION

- End user requested for ISADRAULICS to recommend better filtration for a motor bearing lube bath system by using the existing filter pump and motor set arrangement.



PROJECT OBJECTIVES

- Replace existing PIRTEK/Kleenoil filter housing and element and in-line check valve with an improvement to oil condition and cleanliness management by employing the HYDAC OLF-5-F-Z-Z-Z-Z (#3046499) housing for oil cleanliness improvements and efficiency.
- Removal of Kleenoil cellulise construction filter element and housing for improvement to system availability.

INDUSTRIES



**MOUNT ISA
MINES**

A GLENCORE COMPANY



HYDAC SOLUTION

- Replace current Kleenoil filter housing (#9788 USA-KU85) and 3 Bar check valve as sold by PIRTEK with HYDAC OLF-5-F-Z-Z-Z-Z (#3046499) housing.



Advantages to client:

- Better HYDAC element contamination retention capacity and lower Δp values at start up.
- Standardisation of HYDAC filter element which is stock coded by end user at other mine sites.
- Locally stocked HYDAC consumables by ISADRAULICS.
- In built relief valve and installed manual reset clogging indicator to HYDAC filter head.
- Able to use existing electric motor, pump set and on-off switch block.



- Existing CASAPPA aluminum gear pump @ 3.34cc/rev with 0.37kW 240V 4 pole electric motor. Estimated flow delivery is approx. 4.67 l/min. System pressure at 2.7 Bars.



FOR INTERNAL USE ONLY!!!

Customer: Glencore Mount Isa Mines 20 Level.


Order value: Approx. AUD \$6K for two (x2) system upgrades.

ISADRAULICS project manager: Steve Buttery (Application Specialist).

Further sensitive information:

KEY FIGURES

 **System Efficiency**

 **System Reliability**

 **System Availability**

 **Local support.**

RESULTS

A compact system professionally upgraded by ISADRAULICS.



CUSTOMER BENEFITS

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FURTHER APPLICATION AREAS

- Other Glencore operations and MMG sites.
- Critical rotating equipment such as planetary gearbox drives and helical gearbox drives.
- Suitable for small reservoir volumes for lubrication and hydraulic systems requiring moderately low flows with oil viscosities not exceeding 200cSt.

For internal use only. In case of questions please contact the Fluidengineering Automotive team (FE-A).

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