

# UK MINISTRY OF DEFENCE: SUPPORT MODEL FOR MAKILA 1A1 ENGINES



## ABOUT

The UK Ministry of Defence required support for the pool of 58 Makila 1A1 engines which will be servicing the RAF's fleet of 24 Puma HC2s. The Contractor Logistic Support (CLS) arrangement would need to deliver not only 100% engine availability but also excellent cost-efficiency for the UK taxpayer. Heli-One is a world-leading authority on operating Makila engines, and Heli-One used this knowledge in combination with a close analysis of the MoD's operational requirements to develop a CLS model which will now come into effect from 2013.

## TESTIMONIAL

"Extremely pleased to witness the award of this contract to Heli-One. The Makila engine substantially increases the performance of our Puma helicopters and is a vital part of the modernization of this capability. Heli-One has substantial experience in the support of the Makila engine and the robust support arrangements we have agreed will help secure this performance advantage for the military and deliver excellent value for the taxpayer."

UK Ministry of Defence

**Heli-One**  
Excellence in Helicopter  
Maintenance Services

**CASE STUDY**

MAKILA 1A1 ENGINE SUPPORT

# CUSTOMER BENEFITS

- Unprecedented asset availability through capitalizing upon commercial sector best practise
- By-the-Hour-style management of engine pool allows total budget efficiency and control
- CLS model recommendations able to be based on Heli-One's unrivalled Makila support experience

## HELI-ONE'S APPROACH

Heli-One is helping the MoD to pioneer a new way to manage key assets. RAF No.33 and 230 Squadron's fleet of 24 Puma HC2s will be serviced by a pool of new, powerful Makila 1A1 engines. Heli-One were able to use their depth of operational and maintenance experience to examine the MoD's needs in detail and assemble a service support model.

In the development of the CLS proposal Heli-One analysed the requirements of the RAF. Military operations demand extremely rapid turnaround times. Through its experience working with the Swedish Armed Forces' fleet, Heli-One understands about the operational realities of military helicopter engine usage and deterioration. Heli-One's CLS model is founded upon best practices in the high-frequency commercial rotary Oil & Gas support sector developed for 'Power by the Hour' (PBH) contracts. The MoD will be able to forecast schedules of expenditure based on planned flight hours logged through an RAF and Heli-One dual reporting system.

Heli-One's years of experience operating Makila engines in varied environments will be of value in helping the RAF maximize their return from the new engines. Heli-One has supported over 340,000 Makila engine flying hours in the last three years alone. The company's Turbomeca-approved engine shop in Norway is a Centre of Excellence for Makila support, and has been repairing and overhauling Makila engines for over 20 years.

## TECHNICAL DELIVERY

Some of the details from the finalized agreement:

- 24 Puma HC2s will be serviced by a pool of 58 Makila 1A1 engines
- Multi-million dollar CLS to be delivered over a 13-year period
- Significant overall cost-saving for UK taxpayer
- MoD able to forecast expenditure based on planned flight hours
- Flight hours logged through RAF and Heli-One dual reporting system
- Two expert Heli-One personnel to be embedded at RAF Benson to work as a team with RAF operations staff
- 100% engine availability within four hours
- Military benefits from industry-leading standards of responsiveness and service provision
- Option to inject commercial Makila 1A1 engines to maintain availability
- Engine repair and deep overhaul activity will take place in Heli-One's facility in Stavanger, Norway