

# FORECASTING THE FLEET NEEDS OF THE FUTURE

ENGINE MANAGEMENT  
& ASSESSMENT



ACUMEN



# ABOUT ACUMEN

An independent asset management organisation providing comprehensive in-house asset management support to lessors, banks, equity investors and operators in the aviation sector, from sourcing and acquisition to transition or disposal. Headquartered in Ireland, Acumen has a global reach with regional offices in the USA, India and China.

70+ ENGINE  
SHOP VISITS

## ENGINE MANAGEMENT

We appreciate the need to keep a watchful eye on your engines throughout their life. We offer a comprehensive suite of powerplant management and advisory services designed to support the specific needs of lessors, investors and financiers.

These services cater for the vast array of engine types and marques, spanning the world's commercial fleet. Rich technical engineering knowledge has been successfully combined with latest technologies to offer a robust approach to management, forecasting and financial planning.



# MANAGING SERVICES ACROSS THE ENTIRE ENGINE LIFECYCLE

## PRE PURCHASE/ DELIVERY

Desktop Review (Risk)  
Life Cycle Analysis (Exposure)  
Records Review  
BSI Oversight

## LEASE MANAGEMENT

Shop Visit Management  
MR Claim Support  
Desktop Review  
Life Cycle Analysis  
Workscope Review

## REDELIVERY/ SALE

Sale Support  
Records Reviews  
Inventory Checks  
BSI Oversight  
MPA Run Oversight



200+  
ENGINES  
SUPPORTED



# OUR SERVICES

## MANAGE MAINTENANCE VISITS

Workscope review

Table inspection (Onsite or Virtual)

Material assessment

Invoice review

Life cycle analysis

Reserve claim analysis

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## DEVELOP & REVIEW THE SCOPE OF WORK

Compare workscope with requirements

Calculate the level of repair required

Identify failures and assess the level of rectification required

LLP back to birth trace review

AD and SB assessment

Compare against future redelivery conditions

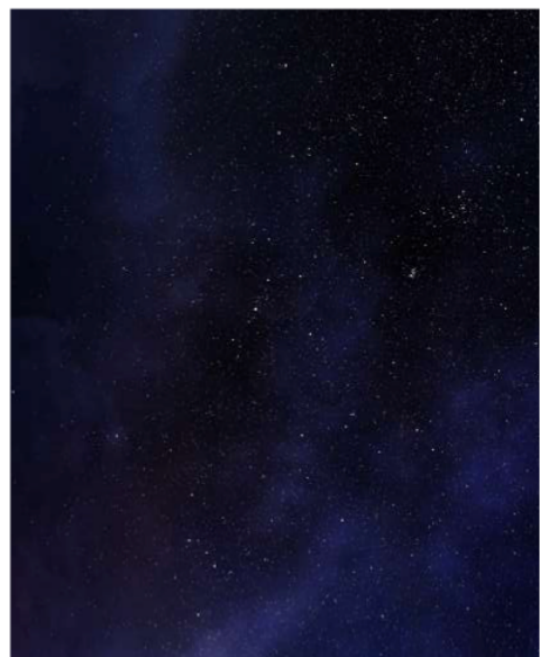
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## CLAIMS REVIEW & NEGOTIATION

Carry out claim review

Assess in accordance with lease

Provide a recommendation report







200+  
FLEET MR  
REVIEW

## MEDIATION & ARBITRATION SUPPORT

Clients are assured by Acumen's capability when seeking expert support in resolving aero engine disputes. Acumen deploys a unique combination of operational experience and its subject matter knowledge to support its clients in reaching resolution.

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## STRATEGIC LIFE CYCLE ANALYSIS

Assess engine serviceability  
Review Life Limited Parts  
AD & SB status  
Compile gap assessment  
Establish workscope history  
Plot cash flow forecast  
Calculate the next expected shop visit, and expected costings

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## INSURANCE SURVEY & CLAIM

Acumen will review each engine removal declared an insurance event, then work with the operator and insurance representatives to support your interest

# 1000+ ASSET INTEGRATION

## MR2

For MR2, the major benefit to you is the ability MR2 gives you to map the future or chart a course to a future destination using only minimum key strokes.

- Establish Maintenance Reserve rates for engines, aircraft maintenance checks, landing gear and APU's at the touch of a few buttons
- Establish Maintenance Reserve rates for any engine type operating in any environment and operating condition
- Predict the engine life cycle and establish its expected condition at any future date
- Predict LLP replacements and engine shop visit costs
- Predict the expected life on wing of an engine operating in multiple environments in the future
- See the predicted lease end compensation position for engines, airframe, land gear and APU at the click of a button
- Run cash flow forecasts for aircraft engines APU and landing gear and download to Excel for modelling
- Predict maintenance reserve fund balances for any future date

The screenshot displays the MR2 software interface with two main data entry sections. The top section is for aircraft data, and the bottom section is for engine data. Both sections include dropdown menus for type selection, text fields for identification numbers (TSN, CSN), and numerical input fields for utilization metrics.

Aircraft Data		Engine Data	
Aircraft Type	Maintenance Program	Engine Type	
Date of Manufacture 21-09-2020	CSN 0	TSN 0	CSN 0
Assumed Utilization (FH) 300	Assumed Utilization (FC) 150	Assumed Utilization (FC) 150	Utilization Ratio 2.0:1





- See predicted engine worksopes and change these to see the effect on life on wing and maintenance reserve fund balance
- Run scenarios and compare changes to the cashflow forecast with changes to MR rates, operating environment, sector lengths or even shop visit escalation costs





# Let's start the conversation:

## Get in contact today to find out more.

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