

FAQ No 6

“What are the benefits of recording engine data manually for trending, if we are also downloading electronic data?”

It is not mandatory to record and forward trend performance data using both methods for Jet-Care GPA to provide a high quality service. However Jet-Care does recommend that an enhanced trending service is provided when data is provided electronically and manually (cockpit recording). Consider the advantages as listed below.

ELECTRONIC DATA – THE PROS	MANUAL DATA – THE PROS
<ul style="list-style-type: none">▪ Automatic, high quality and requires no pilot input/workload▪ Recordings are not subject to human error▪ Data capture normally more frequent and regular.	<ul style="list-style-type: none">▪ Immediacy – data analysed flight by flight▪ Potential to identify arising faults/damage quicker▪ Enables optimum evaluation by comparison with electronic data▪ Pilots maintain good awareness of the normal engine parameters in cruise conditions (and can identify changes easily)▪ Electronic download period can be extended to maximum allowable▪ Some electronic data may not capture key parameters e.g. fuel flow, vibration, etc.
ELECTRONIC DATA – THE CONS	MANUAL DATA - THE CONS
<ul style="list-style-type: none">▪ Downloading is time consuming and may be costly▪ Data files can be lost or corrupted▪ Some data captures may not be taken▪ Periods between downloaded files and evaluation can be too great▪ May not capture all key parameters.	<ul style="list-style-type: none">▪ May increase pilot workload on some flights▪ Flight envelope may preclude data recording▪ Recording on trend sheets can cause administrative problems and effort and may give script and transcription errors.

Conclusion

Where trend performance data is electronically captured for download it is a distinct advantage to also carry out manual recording in the cockpit. For the owner/operator trending using both methods is a win-win for an optimum service with little cost in time and effort.