



Issue: Increase in instances of R22 and /or R44 engine cylinder removals due to valve and/or valve seat erosion.

- For registered operators **who have not** experienced related issues as described within CASA Airworthiness bulletin's AWB 82-024 and/or AWB 85-025, complete Sections 1 and 2 and submit form.
- For registered operators **who have** experienced a related issue complete Sections 1, 2 and 6 - (One Time Only) and complete Sections 3, 4 and 5 for each defect occurrence.

Note: Where occurrence data has previously been supplied to CASA via the DRS system insert the DRS number in the assigned block and simply complete other data fields not previously provided.

DRS number		Sequence number (CASA use only)	
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1. Operator details

Registered operator name	
Address	
Contact person	
Contact number	
Email address	

2. Aircraft fleet details

Model quantity	R22 Beta:		R22 Beta II:		R44 Raven I	
Model registrations	VH-		VH-		VH-	
	VH-		VH-		VH-	
	VH-		VH-		VH-	
	VH-		VH-		VH-	
	VH-		VH-		VH-	
	VH-		VH-		VH-	
	VH-		VH-		VH-	
Primary operating area (refer Figure 1 to designate) (e.g. f2)						
Primary operating purposes (e.g. Agricultural-mustering)						
Average annual utilisation	Hrs		Hrs		Hrs	



3. Aircraft details

Helicopter model (select)	R22 Beta		R22 Beta II		R44 Raven I	
Serial number						
Registration						
Engine model (select)	O-320-B2C		O-360-J2A		O-540-F1B5	
Engine serial number						
Engine history	TSN		TSO		TSLMC	
	Hrs		Hrs		Hrs	
	Date		Date		Date	
- Time in current operating area (Figure 1)	Hrs		Previous operating area/time		Area	
					Hrs	
Engine oil	Brand			Grade		
① Provide details on seasonal oil grade changes, if applicable, e.g. W100 in winter and W120 in Summer	①					
- Oil change interval	Hrs		Oil analysis program	Yes		No
Spark plug	Brand			Part no		
Carburettor	Manuf.		Model		Setting	
Air cleaner	Manuf.		Part no.			
- Clean and replace interval	Clean hrs (as applicable)		Replace hrs			
Digital engine monitor fitted	Yes		No			
- EMS files available	Yes		No			
- Engine STC and/or non-standard modification details						



4. Defect details

Occurrence date							
When discovered (select)	Pre-Flt		Take off		Climb		Descent
	Landing		Schedule maintenance				Other
Operating conditions	OAT				AGL		
	CHT				Oil temp		
	MAP				RPM		
	Est. fuel burn (lbs/hr)						
Defect description - Symptoms - Cause - Other contributing Factors							

5. Affected part details (Include other relevant information, such as photographs, reports or sketches if available)

Cylinder assembly	Part no				Serial no			
Cylinder position (select)	No.1	<input type="checkbox"/>	No.2	<input type="checkbox"/>	No.3	<input type="checkbox"/>	No.4	<input type="checkbox"/>
	No.5	<input type="checkbox"/>	No.6	<input type="checkbox"/>				
Cylinder history	TSN hrs				TSO hrs			
Part available for inspection	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>				
Warranty claim details								
Rectification action								
Previous Maintenance History for Affected Cylinder and Valve Train (e.g. Exhaust Valve Guide Reamed and Valve Re-Seated @ 296 Hrs TSO. Pushrod also replaced due to tip wear and scoring)								
Maintenance Organisation Name								
Maintenance Contact Person								
Contact Number								
Email Address								



6. Fuel supply details

Supplier company name(s)			
Fuel source (select)	Airfield tanker		Airfield bowser
	Drum stock		Independent storage ②
② Provide details of onsite storage capacity, fuel change-over frequency and quality control procedures.			

7. Submit completed form

Mail the completed form to:
Civil Aviation Safety Authority
Defect Report
Reply Paid 2005
Canberra ACT 2601

Alternatively E-mail to:
defect.reports@casa.gov.au

You may also deliver the completed form to any CASA office - see CASA web site for locations www.casa.gov.au

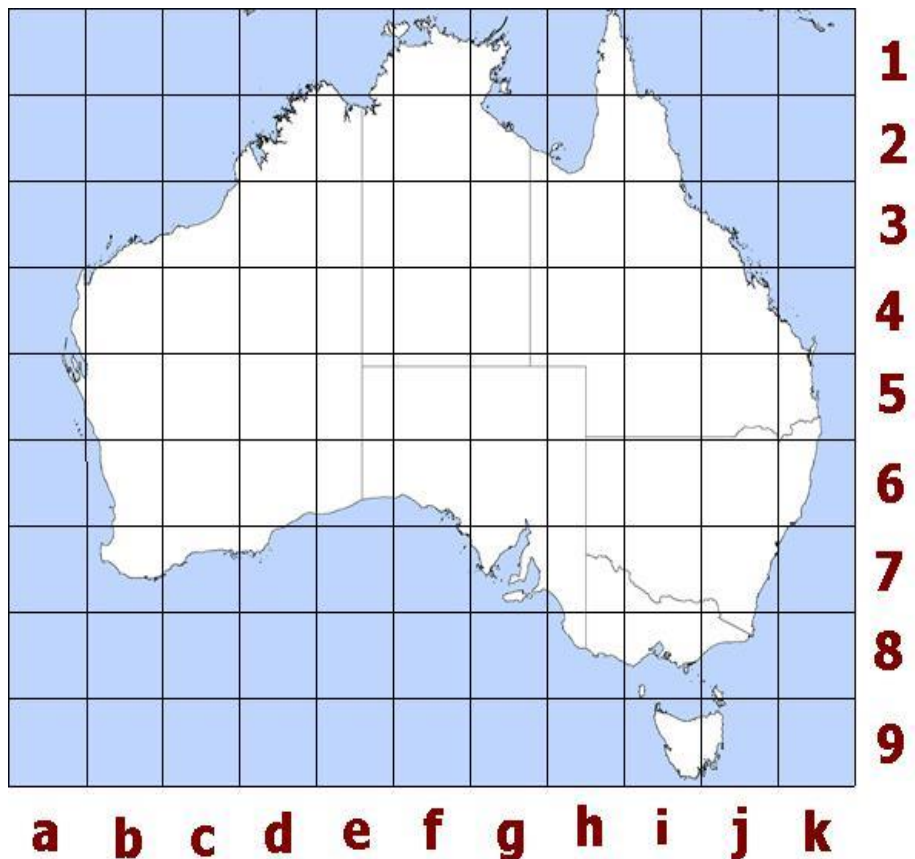


Figure 1: Aircraft operating area chart

Designate a grid reference which best encompasses the primary operating area