



# VR Start-Up Report

Mail to: Attn: Warranty Dept.  
 Arrow Engine Co.  
 2301 E. Independence  
 Tulsa, OK 74110-4900  
 Fax: 918-699-2203

**All applicable information must be filled in:**

Site Name: \_\_\_\_\_ Contact Person: \_\_\_\_\_  
 Unit Number: \_\_\_\_\_ Phone No: \_\_\_\_\_  
 Contact Person E-mail Address: \_\_\_\_\_  
 Site Address: \_\_\_\_\_ Lease No: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Country: \_\_\_\_\_

Overhauled: _____ by: _____ Owner: _____ Address: _____	Engine Model: _____ S/N: _____ Spec: _____ Compression Ratio: _____ : 1 Name & Model of Driven Equipment: _____ Application: _____ Duty Cycle: _____	Organization Performing start-up: Organization: _____ Address: _____ Date of Startup: _____ Technician Performing Start-Up: _____
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<b>Lube Oil &amp; Filter:</b> Brand: _____ API: _____ Viscosity: _____ Oil Change Hours: _____	<b>Cooling System Information</b> Type: _____ Water Hardness: _____ Treatment Used: _____ Maintained by: _____ _____ _____	<b>Fuel Information</b> Type: _____ BTU Content (LHV): _____ Filtration Type: _____ % of H <sub>2</sub> S: _____ µg/l of CL: _____
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**Hot Alignment**

Readings in .001" Increments

_____ " <b>(A)</b> _____ "	_____ " <b>(P)</b> _____ "	CRANKSHAFT END PLAY: _____ " Distance from center of shaft to the angular dial indicator: _____ "
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Valves Adjusted to: INT. \_\_\_\_\_ " EXH. \_\_\_\_\_ "

FUNCTION TEST NO LOAD OPERATION. ENGINE RAN FOR \_\_\_\_\_ Minutes.

RPM			IGN. TIMING	INT. MFLD.	GAS OVER	Safety Trip Points				Checked Oiling		
IDLE	HI IDLE	GOV	@GOV.RPM BTDC	VAC. AT IDLE	AIR RATIO	HI WATER	LOW OIL	O.S. GOV.	INT. MFLD.	FUEL SHUT OFF	ROCKER ARMS	TURBO
			°	"Hg	H <sub>2</sub> O	°F	PSI	RPM	°F	PSI		
						°C			°C			

FUNCTION TEST LOADED OPERATION. ENGINE RAN FOR \_\_\_\_\_ Hours

RPM	WATER OUT TEMP	OIL TEMP OIL TEMP	OIL PRESS. OIL PRESS.	C. CASE PRESS.	EXH. BACK PRESS.	LOAD	IGN. TIMING @GOV. RPM BTDC	INT. MFLD VAC/PRESS	EXHAUST TEMP	FUEL PRESS. AT REG. IN	GAS OVER AI RATIO
	°F	°F	PSI	"H <sub>2</sub> O	"H <sub>2</sub> O	BHP	°	"Hg	°F	PSI	H <sub>2</sub> O
	°C	°C				KW			°C		

NOTE ANY OIL OR WATER LEAKS and any discrepancies which should be corrected. Explain any support system such as fuel, cooling, air induction, exhaust, or general installation features which may be detrimental to engine performance or service life.

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_

DISCUSSED WARRANTY? \_\_\_\_\_ ADVISED WHERE TO OBTAIN PARTS AND SERVICE? \_\_\_\_\_

\_\_\_\_\_  
 CUSTOMER'S SIGNATURE (Required)  
 (Indicating Start-Up Performance to His/Her Satisfaction)

\_\_\_\_\_  
 SERVICEMAN'S SIGNATURE

\_\_\_\_\_  
 CERTIFIED SERVICEMAN'S SIGNATURE

EXPLANATION OF ABBREVIATIONS: "HG (Inches of Mercury), "H<sub>2</sub>O (Inches of Water), F (Degree Fahrenheit), C (Degree Centigrade), RPM (Engine Crankshaft RPM), PSI (Pounds Per Square Inch Gage), O.S. (Over Speed), A=Angular, P=Parallel