

Spec. No. 221

Date Issued: 1939

MODEL SPECIFICATION

ENGINE, MARINE: MODEL V-3420-A8

(INCOMPLETE)

ALLISON DIVISION

General Motors Corporation

Indianapolis, Indiana

(ALLISON MODEL DESIGNATION V-3420-A8R & A8L)

ALLISON SERVICE HANDBOOK - V-3420-A8 ENGINES

TABLE OF SPECIFIC OPERATING DATA

Using 92 Octane, U. S. Army Method Fuel
(87 Octane, U. S. Navy Spec.)

The V-3420-A8R & L Engines are rated at 2000 B.H.P. at 2600 R.P.M. without ram. Maximum speed is 2600 R.P.M. with a corresponding manifold pressure of 34.8" Hg.

<u>Full Speed Ahead</u>	Maximum Engine R.P.M.	2600
	Maximum Manifold Pressure	34.8"Hg.
<u>Maximum Engine Speed</u>	Maximum Engine R.P.M.	2600
	Maximum Manifold Pressure	34.8"Hg.
	Fuel Consumption, Gals/Hr. Max.	194
	Oil Consumption Qt/Hr. Maximum	33
	Normal	20
<u>Cruising Speed, Max.</u>	Maximum Engine R.P.M.	2300
	Maximum Manifold Pressure	28.2"Hg.
	Fuel Consumption, Gals/Hr. Max.	106
	Oil Consumption, Qt/Hr. Maximum	23
	Normal	14
<u>Cruising Speed Desired</u>	Maximum Engine R.P.M.	2200
	Maximum Manifold Pressure	26.5"Hg.
<u>Spark Plug Temperature</u>	Maximum	401°F.
	Normal	325°F.
<u>Coolant Out Temperature</u>	Normal	250°F.
	Maximum Permissible	260°F.
	Minimum for Underway	185°F.
<u>Oil Pressure</u> (lb/sq.in.)	Normal	60 - 65
	Maximum Warm-up	125
	Maximum Underway	70
	Minimum Cruising	55
	Minimum Idling	40
<u>Oil Inlet Temperature</u>	Normal	180°F.
	Maximum	190°F.
	Minimum Underway	165°F.
<u>Fuel Pressure Desired</u>	Lb./sq.in.	15

