SM25
SERVICE MANUAL
INTERNATIONAL
434 TRACTOR

SM25

MidWestTech | International Harvester 434 Tractor Service Manual | Publication SM25

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1. DESCRIPTION

1a. GENERAL

The International 434 tractor is equipped with two types of I.H. four cylinder, valve in head engines: the 154 cubic inch diesel engine and the 144 cubic inch petrol version. The 154 high compress engine has glowplugs incorporated in each pre-combustion chamber to aid cold starting.

This group only covers the "REMOVAL and INSTALLATION". For detailed servicing information, refer to the BD-154/BC-144 series ENGINE SERVICE MANUAL SM-12.

2. SPECIFICATIONS

DIESEL

Make	I.H.
Model	BD-154
No. of cylinders	4
Bore (in)	3-1/2
Stroke (in)	4
Displacement (cu in)	154
Rated (governed) speed rpm	2000
High idle rpm	2200 $\pm$ 25
Low idle rpm	520 - 580
Low idle rp. (with Speed Amplifier)	750
Valve clearance (HOT) (in)	.020
Firing order	1 - 3 - 4 - 2

PETROL

Make	I.H.
Model	BC-144
No. of cylinders	4
Bore (in)	3-3/8
Stroke (in)	4
Displacement (cu in)	144
Rated (governed) speed rpm	2000
High idle rpm	2200 $\pm$ 25
Low idle rpm	500
Low idle rpm (with Speed Amplifier)	750

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2. SPECIFICATIONS - continued

Valve clearance (HOT) (in)	.020
Firing order	1 - 3 - 4 - 2
Spark plug gap (in)	.024
Distributor point gap (in)	.014

CAPACITIES (Diesel and Petrol)

Crankcase pints	13
Air cleaner pints	1-1/4

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