Engine, Fuel, and Electrical Systems for 4140 and 4150 Isuzu Diesel Engine

Service Manual

GSS-1486

CASE IH AGRICULTURE

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Section 1

ENGINE

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SPECIFICATIONS

	3 AB 1 (3 Cylinder)	C-240 (4 Cylinder)
GENERAL		
Number of cylinders	3	4
Bore and stroke	86 mm x 102 mm 3.38 in. x 4.02 in.	86 mm x 102 mm 3.38 in. x 4.02 in.
Displacement	1777 cc 108.5 cu. in.	2369 cc 144.6 cu. in.
Engine RPM (Governed)		
Low Idle	1000	
High Idle	3000	
Rated Load	2800	
Injection pump static timing - degrees	18 BTDC	14 BTDC
Compression ratio:	20:1	
**Compression pressure at cranking speed (200 rpm) with a motorite tester -	31 kg/cm^2 440.8 psi	
Crankcase refill capacity	7.6 litres 8 qts.	6.6 litres 7 qts.
Firing order	1-3-2	1-3-4-2
CRANKCASE		
Cylinder bore dia.	86 mm 3.3854 inches	
Tappet OD	13 mm .5118 inch	
Minimum permissible tappet OD	12.95 mm .5098 inch	
Clearance between tappet and bore in block	0.03 mm .0012 inch	

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	3 AB 1 (3 Cylinder)	C-240 (4 Cylinder)
Maximum permissible tappet to bore clearance		0.1 mm .0394 inch
CRANKSHAFT AND MAIN BEARINGS		
Main journal diameter		70 mm 2.7559 inches
Maximum allowable out of round		0.007 mm .00028 inch
Crankpin diameter		53 mm 2.0866 inch
Maximum allowable out of round		0.007 mm .00028 inch
Main bearings, running clearance		0.029-0.085 mm .0011-.0033 inch
Maximum allowable main bearing running clearance		0.12 mm .0047 inch
Thrust bearing location		Center
Thrust bearing end clearance		0.10 mm .004 inch
Maximum allowable end clearance		0.30 mm .0120 inch
CAMSHAFT		
Cam lobe lift (total)		40.6 mm 1.5984 inches
Minimum allowable camshaft lobe lift		40.2 mm 1.5824 inches
Journal diameter		48 mm 1.8898 inches

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