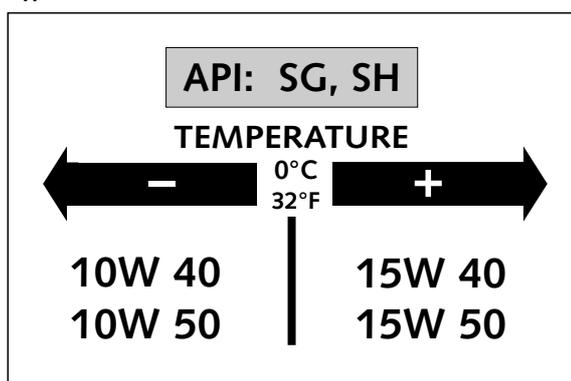


## TECHNICAL SPECIFICATIONS – ENGINE 625 SXC 2003

Engine	<b>625 SXC</b>
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft
Displacement	625 ccm
Bore / Stroke	101 / 78 mm
Ratio	11,5 : 1
Fuel	unleaded premium gasoline with a least RON 95
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain
Camshaft	584-V03/1
Valve diameter	Intake: 36 mm    Exhaust: 32 mm
Valve clearance cold	Intake: 0,15 mm    Exhaust: 0,15 mm
Crank shaft bearing	2 cylinder roller bearing
Connecting rod bearing	needle bearing
Top end bearing	bronze bushing
Piston	forged aluminium alloy
Piston rings	1 compression ring, 1 taper face ring, 1 oil scraper ring
Engine lubrication	two Eaton-oilpumps
Engine oil	see table #
Engine oil quantity	1,6 liters (0,42 US gallons)
Primary ratio	straight geared spur wheels 31 : 79 teeth
Clutch	multi disc clutch in oil bath
Transmission	5-speed claw shifted
Gear ratio	1st 14:35 2nd 15:24 3rd 18:21 4th 20:19 5th 22:18
Ignition system	contactless DC-CDI ignition with digital advanced system type KOKUSAN
Ignition timing	adjustment to max. 38 ° BTDC at 6000 rpm
Generator	12V 200W
Spark plug	NGK DCPR8 E
Spark plug gap	0,9 mm
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanic driven water pump
Cooling liquid	1 liter, 40% antifreeze, 60% water, at least -25°C (-13°F)
Starting equipment	kick - electric starter

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### Engine oil

Use only synthetic oil brands, which meet quality requirements (Shell Advance Ultra 4) of API-classes SG or SH (informations on bottles) or higher.

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**! CAUTION !**

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POOR OIL QUALITY OR MINOR QUANTITY EFFECT EARLY ENGINE-WEAR.

<b>BASIC CARBURATOR SETTING</b>	
	<b>625 SXC</b>
Type	Keihin FCR-MX 41
Carburator-setting number	4138A
Main jet	165
Jet needle	OBDVT
Idling jet	42
Main air jet	200
Idling air jet	100
Needle position	5. rd from top
Starting jet	85
Mixture control screw open	2
Slide	15
Performance restrictor	Slide stop
Stop pump membrane	858 / 2,15 mm
Hot start device	3,8 mm

<b>BASIC CARBURETOR SETTING</b>	
	<b>625 SXC USA</b>
Type	Mikuni BST40-266
Main jet	152,5
Needle jet	X-6 689
Idling jet	45
Jet needle	6G5
Needle clip pos. f. top	3. from top
Mixt. adj. screw open	2,25