CROATIAN REGISTER OF SHIPPING



Certificate No.

02-003399/025364

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

DIESEL ENGINE type QSK-19, KTA-19 and KT-19

MANUFACTURER:

CUMMINS Inc.

4400 Leeds Avenue, Suite 300 Charleston, SC 29405 United States

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

CRS: Rules for the classification of ships, Part 9. - Machines.

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: 2025-10-07

Place and date: Split, 2021-09-20 Seal

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

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DETAILED PRODUCT DESCRIPTION:

Number of cylinders	6
Cylinder arrangement	In-line
Working cycle	4- stroke
Cylinder bore (mm)	159
Stroke (mm)	159
Kind of fuel	Liquid
Fuel injection system	QSK19: Electronically controled, common rail, direct injection
	KT19, KTA19: Injection operation by cams, direct injection
Valve operation	Cam control
Turbocharging system	QSK19, KTA19: With supercharging, with charge air cooling, constant pressure
	KT19: With supercharging, without charge air cooling, constant pressure

APPLICATION / LIMITATIONS:

Application: Propulsion

Model	QSK-19	QSK-19	KTA-19	KTA-19	KT-19	KT-19
Rated power (kW)	597	597	522	477	380	351
Rated speed (rpm)	2100	1800	2100	1800	2100	1800
Mean effective pressure (bar)	18,1	21,0	15,8	16,8	11,5	12,4
Max firing pressure (bar)	156,7	156,9	141,1	144,7	132,4	132,3

Application: Auxiliary and emergency

Model	QSK-19	QSK-19	KTA-19	KTA-19
Rated power (kW)	597	526	507	448
Rated speed (rpm)	1800	1500	1800	1500
Mean effective pressure (bar)	21,0	22,2	17,0	19,0
Max firing pressure (bar)	153,9	156,0	145,1	147,6

Power ratings (at the same rated speed) lower than those stated is accepted as long as they are within the values approved by engine designer.

TYPE APPROVAL DOCUMENTATION:

 Approved by the Croatian Register of Shipping with letter No.(dated):
 2181/TS/IA/023498 (2013-10-07)

 1899/TSE/KF/025364 (2021-09-20)

MARKING OF PRODUCT:

- manufacturer's mark
- location and year of final fitting
- CRS mark

CONDITIONS FOR CERTIFICATION:

Signalization and protection related to the engine shall be subject to CRS approval in each particular case and will depend on service applied and the degree of automation of the engine plant.

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