diesel multifunctional additive series RHC-9300

a new generation of multifunctional additives

Rheochemie GmbH

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additives solutions
to boost the world of
tomorrow

diesel multifunctional additives series RHC-9300

RHC-9300 Diesel Additive Series is used to improve the quality and performances of diesel fuel to serve pressing needs from consumers.

RHC-9300 Diesel Additive Seriesis able to enhance specific attributes of diesel fuel and has been developed to:

- improve combustion rates
- reduce fuel consumption
- increase Cetane Number
- increase lubricity index
- reduce emissions
- keep the injection system efficiency
- protect motors against corrosion
- prevent fouling deposit formation

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efficiency
is the key to cheaper energy
production

technical overview

RHC-9300 Diesel Additive Series is a poly functional additive, homogeneous and miscible in hydrocarbons, designed with a special formulation expressly studied to improve the performance of diesel engines used for power generators, trucks and cars.

RHC-9300 Diesel Additive Series enhance engine performance with direct effect on fuel combustion efficiency with immediate increase of power production, decrease of fuel consumption and increase of lubricity index.

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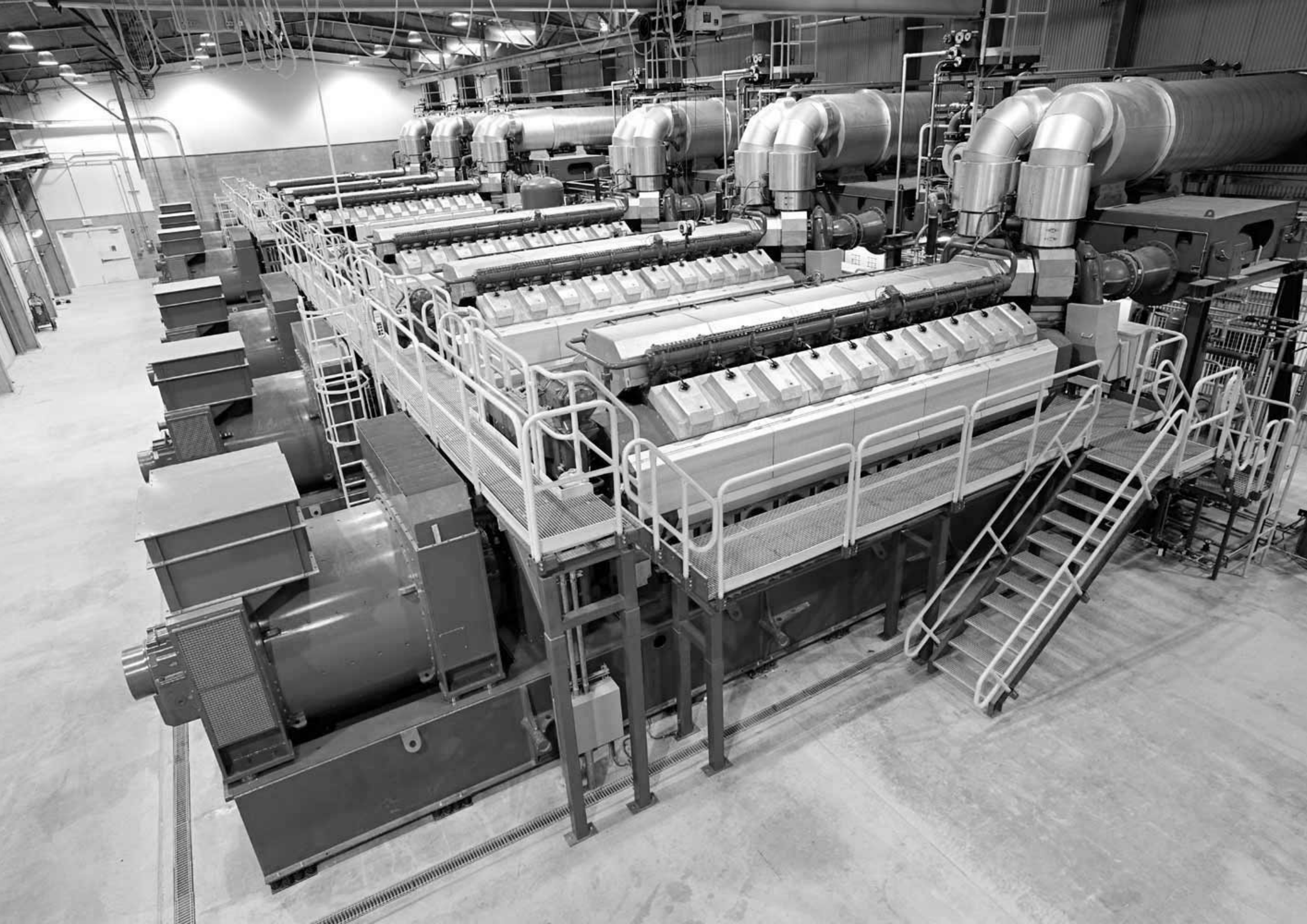

technical overview

These effect are measurable directly with control of engine parameters. The use of **RHC-9300 Diesel Additive Series** directly contribute to operative and maintenance costs reduction.

RHC-9300 Diesel Additive Seriesprovide substantial noxious emissions decrease. This is a significant contribution to environment protection.

Aspect:	brown liquid
Density at 20C ° :	0,9 - 1,0
Miscibility:	completely miscible
Freezing Point:	approximately - 10 °C
Flash Point:	70 °C


Dirty injector


Clean injector

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test results case 1

Test on stand – complying with COA: PSL 11-45-13 Nr 76
Master: The National Institute of Thermic Engines
Engine: D121-050 diesel tractor U650
Fuel: diesel CN 51

Test Performed @ 2600 rpm / P= 68 HP

	Dosage	Noxious emission				
	ppm	%		ppm		Unit Bosch
	RHC-9600	CO_2	CO	CH	NOx	Opacity (smoke)
Blank	-	8,4	0,15	22	668	3,8
With RHC-9600	20	7,9	0,13	19	565	3,4

Noxious decreasing vs. additive

Engine Load %	0	60,3	100	**Engine Load %**	0	60,3	100
	CO decreasing %				NOx decreasing %		
With RHC-9300	33,3	60	13,3	**With RHC-9300**	3,7	11,8	15,4
	CO decreasing %				NOx decreasing %		
With RHC-9300	13,6	36,8	13,6	**With RHC-9300**	66,7	17,6	10,5

Conclusions:
Fuel Saving ≈ 5-10 %
Significant Noxious Emission reduction

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test results case 2

Al Dhafrat Power station

- Engine Type & N°: Marine 8 cylinder year 1971 - N° 2
- Production Capacity : about 1 MWh
- Fuel storage tank: day tank
- Volume of tank: 1.875 liters
- Dosing rate: 1000 ppmv

During the test the following parameters have been collected:

- kWh: power production
- FRM: liters of fuel (diesel)
- SFC: kWh/liter (power produced per liter of fuel)
- Load: electrical charge

Test data & Results:

- Duration: 2 days
- No anomaly or failure on engine during operation
- Decrease of 3-4 °C of exhaust gases temperature during normal operation and during increase of LOAD
- Production increase (average): from 3,0 kWh/liter up to 3,3 kWh/liter (up to +10%)

improved combustion
means less emission and less
maintenance costs

test results case 3

Hij Mahoot Power station

•Engine Type & N°: Mirless 8 cylinder year 1975 - N° 6
•Production Capacity: about 3,5 MWh
•Fuel storage tank: day tank
•Volume of tank: 4.800 liters
•Dosing rate: 1000 ppmv

During the test the following parameters have been collected:

- kWh: power production
- FRM: liters of fuel (diesel)
- SFC: kWh/liter (power produced per liter of fuel)
- LOAD: electrical charge

Test data & Results:

- Duration: 7 days
- No anomaly or failure on engine during operation
- Production increase (average): from 3,5 kWh/liter up to 4,5 kWh/liter (up to +25%)

Mandressi Group

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