

## Technical data Diesel Generator Set

## CAT 3412-900

Output Ratings with Radiator	DIN/ISO 3046	
Combustion Strategy	Low BSFC, 93 °C A/C	
Generating set Model	Prime	Standby
400V, 50Hz, power factor 0.8	810 kVA	900 kVA
	668 kW	720 kW
Feature Code	4120488	
Performance No.	DM12908	DM12909

<b>Diesel Engine</b>	
Brand	Caterpillar
Type	3412C TA
No. of Cylinders / Alignment	3 / V
Cycle	4-Stroke
Cooling Method	Water-cooled
Fuel	Diesel
Speed	1500 rpm
Bore	130.20 mm
Stroke	153.40 mm
Displacement	17.02 L
Compression Ratio	13.0:1
Aspiration	Turbo after cooler
Fuel System	Pump and Lines
Base Tank Capacity	"Optional" 1'200 L
Jet Set Water System	220 V / 4 kW
Starting Motor	24 V / 7 kW
Battery Type	25 D-700
Quantity	2
Capacity per Battery / total	245 Ah - 24 V / 245 Ah - 24 V

<b>Generator</b>	
Brand	Caterpillar
Type / Frame	598
Excitation	Permanent Magnet or A/RP
Pitch	0.8-647
Number of Poles	4
Number of Bearings	Single Bearing
Number of Leads	3
Insulation	Class H
IP Rating	IP22
Nominal Speed	1500 rpm
Over Speed capability	100 %
Wave form Deviation (Line to Line)	Less than 5 %
Voltage Regulator	Electronic
Voltage regulation	Less than 2.5% (steady state) Less than 3.1% (no load to full load)
Telephone Influence Factor (TIF)	Less than 50
Total Harmonic Distortion (THD)	Less than 5%
CIR: Spot manual, fixed mount rear	1'600 A / 50 kA
Typical Cableing: TH-C (Prime)	3 x 4 x 385 mm <sup>2</sup> + 2 x 2 x 385 mm <sup>2</sup>
Typical Cableing: TH-C (Standby)	3 x 4 x 385 mm <sup>2</sup> + 2 x 2 x 385 mm <sup>2</sup>

<b>Package Dimensions</b>		
Engine:	Length x Width x Height	1'937 x 1'266 x 1'637 mm
	Weight	1'927.0 kg
Generator:	Length x Width x Height	1'944 x 1'044 x 1'812 mm
	Weight	2'323 kg
Radiator:	Length x Width x Height	1'384 x 1'742 x 1'987 mm
	Dry Weight	327 kg
Complete:	Length x Width x Height	4'685 x 3'742x 3'987 mm
	Weight	4'975 kg



<b>Technical Data</b>	Prime	Standby
Fuel Consumption		
100% load with fan	173.7 L/hr	191.7 L/hr
75% load with fan	130.4 L/hr	143.7 L/hr
50% load with fan	90.8 L/hr	99.8 L/hr
Oil consumption 75% load	0.170 L/hr	0.224 L/hr
Cooling System		
Engine coolant Capacity with Radiator / expansion Tank		149.0 L
Engine coolant Capacity		59.0 L
Inlet Air		
Combustion Air inlet flow rate	48.8 m <sup>3</sup> /min	54.7 m <sup>3</sup> /min
Exhaust System		
Exhaust inlet gas Temperature	529.4 °C	544.9 °C
Exhaust gas flow rate	139.3 m <sup>3</sup> /min	157.3 m <sup>3</sup> /min
Exhaust System backpressure max.		6.7 kPa
Heat Rejection		
Heat Rejection to coolant (total)	36.6 kW	42.8 kW
Heat Rejection to exhaust (total)	637 kW	721 kW
Heat Rejection to after cooler	8.6 kW	11.2 kW
Heat Rejection to Atmosphere from Engine	308 kW	338 kW
Heat Rejection to Atmosphere from Generator	29.8 kW	33.8 kW
Lube System		
Sump refill with filter		139.0 L
Exhaust Emission (Nominal Data); Potential Site Variation possible		
NOx mg/kWh	2792.4	3170.4
CO mg/kWh	193.8	423.4
HC mg/kWh	1.227	290.8
Part Matter mg/kWh	45.9	49.9
Generator		
Motor starting capability @ 30%		1'628 kVA
Voltage Dip		
Rated Current	1'189.1 A	1'299.0 A
Short-Circuit Current		3 x I <sub>sc</sub>

<b>Radiator</b>	
Radiator Type	23.4 CT
Design Temperature	50 °C
Radiator coolant Capacity	95.0 L
Air flow @ 1.00 Pa	1'17.6 m <sup>3</sup> /min
Air flow @ 1.80 Pa	1'15.2 m <sup>3</sup> /min

<b>Sound pressure Level LPA @ 75% Load @ 7m</b>										
dB	Hz	63	125	250	500	1000	2000	4000	8000	Overall dBA
Max to min (Delay)		92	90	91	84	86	85	77	68	91
Exhaust (Delay)		93	90	92	92	89	86	87	79	90
Max to min (Prime)		91	88	89	83	86	85	77	68	91
Exhaust (Prime)		92	89	90	91	88	85	86	78	94

# Cat 3412 Ta Parts Manual

**Caterpillar Inc. Peoria, Ill..**



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web graad 10 ekonomie vraestel 1 11 2 uur punte 100 11 bladsye b o gautengse departement van onderwys provinsiale eksamen ekonomie vraestel 1 tyd 11 2 uur punte 100 instruksies en inligting beantwoord drie vrae soos volg in die antwoordboek afdeling a verpligtend afdeling b beantwoord

**vraestelle pnhs** - Jun 28 2022

web vraestelle vir 2019 graad 8 2 taal gr 8 nov 2018 2 taal gr 8 nasienriglyne nov 2018 2 graad 8 afrikaans vraestel 2 taal en begrip 1 assessering voorbeeldvraestelle 1 en 3 graad 10 afrikaans huistaal 2013 2 besigheidstudies gr 10 1dbe 2018 besigheidstudies gr 10 2dbe 2018 gasvryheidstudies gr 10 junie 2018 gr10v2november

**millî eđitim bakanlıđı e denklik** - Mar 26 2022

web soru yurt dışından gelen hangi belgelerden onay istenir yada hangi belgelere onay gereklidir cevap 30 05 2019 tarihli ve 30789 sayılı resmi gazetede yayımlanan denklik yönetmeliđi 5 madde ç bendine göre mezun durumda olanlar için apostille apostille yaptırmamışsa İlgili Ülkenin eğitim bakanlıđı onayı ve dış İşleri bakanlıđı onayı ya da

*graad 10 vraestelboek met memos wiskundeanibrand* - Feb 05 2023

web hierdie vraestelle dek ook die vrae wat in departementele graad 10 junie en november vraestelle voorgekom het vanaf 2010 tot 2019 dit is uiters volledig en bied uitstekende voorbereiding vir graad 10 leerders vir die junie en november eksamens

graad 10 my klaskamer idees en gedagtes uit n juffrou se pen - May 28 2022

web grondslagfase wiskunde assesserings laaste kwartaal isindebele isixhosa isizulu sepedi sesotho setswana tshivenda xitsonga tweetalig grade 4 7 june nov graad 4 7 junie en nov grade 4 tot 7 june en nov graad 3 6 9 november vraestelle studeer net - Mar 06 2023

web ons het oefen vraestelle en memorandums vir alle vakke vir graad 1 9 ons het departementele vraestelle vir graad 10 12 *graad 10 lewenswetenskappe september eksamen memo* - Feb 22 2022

web jun 28 2023 hierdie produk bestaan uit n aflaaibare graad 10 lewenswetenskappe september eksamen memo vraag 1 organiese verbindings basiese strukture van selle mitose plantweefsel diereweefsel vraag 2 plant en diersel chloroplaste vraag 3 mitose organiese en anorganiese verbindings die vraestel bestaan uit 7 bladsye vir 65 punte

**vraestelle wiskunderocks** - Oct 01 2022

web vraestel 2 v2 februarie maart 2010 2019 v2 junie 2015 2019 vraestelle graad 8 junie september november graad 9 junie september graad 10 vraestel 1 junie 2012 2018 vraestel 2 november 2012 2017 graad 11 vraestel 1 junie 2012 2018 vraestel 2 november 2012 2017 graad 12 vraestel 1 v1 februarie maart 2010 2019 v1 junie 2016 2019