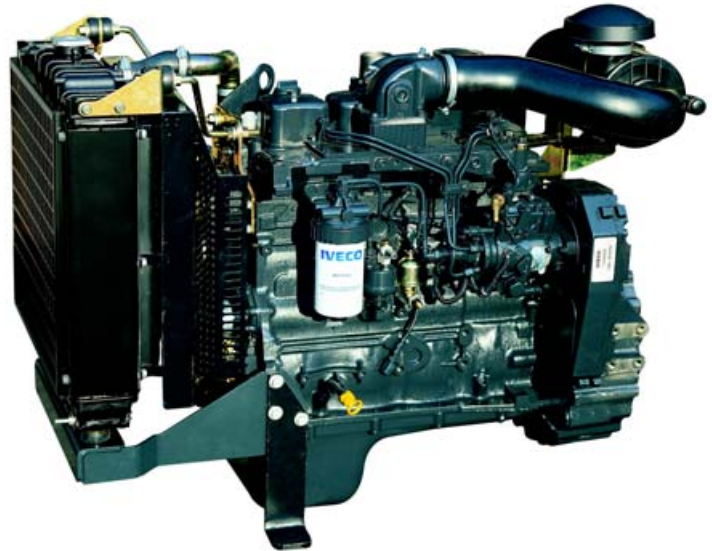


NEF

The 4 and 6 cylinder Diesel engines of the NEF family, are the most versatile and efficient offered by Iveco Motors in genset duty market engines.

The traditional injection systems coupled to full electronic control of the fuel feed system, allow a wide power range and a low gaseous emission level in accordance with European 2002/88/EC and American EPA CARB directives.



PERFORMANCES

| RATINGS ¹⁾ | 1500 rpm | | 1800 rpm | |
|----------------------------|----------|----------|----------|------------------------|
| | PRIME | STAND-BY | PRIME | STAND-BY ³⁾ |
| Rated output ²⁾ | 40 | 44 | 45 | 50 |
| | kWm | | | |

1) Ratings in accordance with ISO 8528 - For duty at temperature over 40°C and/or altitude over 1000 meters must be considered a power derating factor. Contact the Iveco Motors sales organization.

2) Net power at flywheel available after 50 hours running with a $\pm 3\%$ tolerance.

3) EPA / TIER 2 homologated power.

PRIME POWER

The Prime Power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24 h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions.

A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND-BY POWER

This is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overload is permissible for this use.

CONTINUOUS POWER

Contact the Iveco Motors sales organization.

TECHNICAL DATA

| | | | |
|--|----------------------------------|-----------|--|
| Engine model | NEF45 AM1 | | |
| Diesel 4 stroke - Injection | direct, mechanical | | |
| Nb. of cylinders and arrangement | 4, in line | | |
| Speed governor | mechanical | | |
| Total displacement | liters | 4.5 | |
| Bore x Stroke | mm | 104 x 132 | |
| Aspiration | naturally aspirated | | |
| Cooling system | liquid (water + 50% Parafllu 11) | | |
| Flywheel housing / Flywheel | SAE3 / 11" ½ | | |
| Flywheel rotation | CCW | | |
| Lube oil specifications | ACEA E3 - E5 | | |
| Lube oil consumption | < 0,1% of fuel consumption | | |
| Fuel specifications | EN 590 | | |
| Oil and filters interval for replacement | hours | 600 | |

| | RPM | 1500 | 1800 |
|-----------------------|-------------|--------------|------|
| Fuel consumption at : | | | |
| 100% load l/h (g/kWh) | 9.0 (231.3) | 10.4 (240.7) | |
| 80% load l/h (g/kWh) | 6.7 (231.6) | 7.8 (242.0) | |
| 50% load l/h (g/kWh) | 4.6 (237.4) | 5.3 (246.1) | |

| Coolant capacity: | | liters | |
|-------------------|--------|--------|--|
| engine only | liters | ~ 8.5 | |
| engine + radiator | liters | ~ 17 | |

| ATB (without canopy) | °C | TBD |
|----------------------|----|-----|
| | | |

| Lube oil total system capacity including pipes, filters etc. : | liters | ~ 12.8 |
|--|--------|--------|
| | | |

| Electrical system | 12 Vcc | |
|-------------------|--------|--|
| | | |

| Starting batteries : | | |
|------------------------------|----|---------|
| recommended capacity | Ah | 1 x 100 |
| discharge current (EN 50342) | A | 650 |

| Cold starting : | | |
|------------------------|----|-----|
| without air preheating | °C | -10 |
| with air preheating | °C | -25 |

| Engine dry weight | kg | ~ 480 |
|-------------------|----|-------|
| | | |

SCOPE OF SUPPLY

Iveco Motors engine NEF45 AM1 equipped with :

- Mounted radiator .
- Mounted belt driven pusher fan.
- Fan guard.
- Mounted air filter with replaceable cartridges.
- Fuel filter.
- Primary fuel filter/water separator.
- Replaceable oil filter.
- Front engine mounting brackets.
- Flywheel housing SAE 3 and flywheel 11" ½.
- Recircled oil breather system.
- Oil dipstick.
- HWT and LOP sensors.
- 12 Vdc electrical system.
- User's handbook.

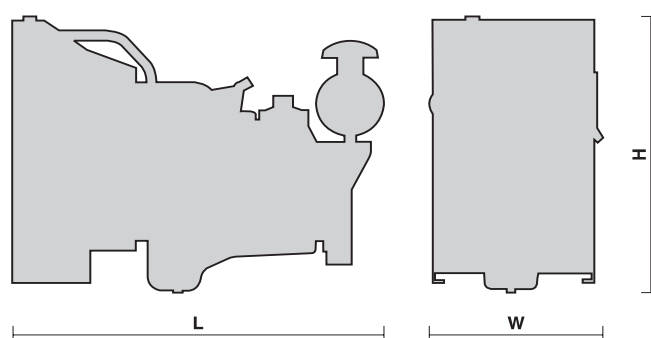
THE ENGINE IS SUPPLIED WITHOUT LIQUIDS.

OPTIONAL EQUIPMENT

On request the engine can be supplied with :

- Oil drain pump.
- Oil drain valve.
- 120/230 Volt water jacket heater.
- WT and OP sensors for gauges.
- Exhaust gas guards.
- 24 Vdc electrical system.

OVERALL DIMENSIONS



L = 1134 mm

W = 640 mm

H = 964 mm

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