

EnginLink™ Data Dictionary

July 31, 2017

Data Field Names and Descriptions

Grouping: Engine Manufacturer Headquarters

| Display Value | Description* |
|---------------------------------|---|
| Engine Manufacturer City | Engine manufacturer headquarters location – city. |
| Engine Manufacturer Country | Engine manufacturer headquarters location – country. |
| Engine Manufacturer Fax | Fax number for engine manufacturer headquarters location. |
| Engine Manufacturer Phone | Phone number for engine manufacturer headquarters location. |
| Engine Manufacturer Postal Code | Postal code for engine manufacturer headquarters location. |
| Engine Manufacturer Region | Engine manufacturer headquarters location – region. |
| Engine Manufacturer State | Engine manufacturer headquarters location – state. |
| Engine Manufacturer Street | Engine manufacturer headquarters location - street address. |

Grouping: Engine Manufacturer Details

| Display Value | Description* |
|---|--|
| Engine Manufacturer Affiliation Note | Partnerships, license agreements, private label agreements. |
| Engine Manufacturer Diesel Note | Notes on diesel engine program. |
| Engine Manufacturer Division | Additional descriptor or location for engine manufacturing operations. |
| Engine Manufacturer Employees | Estimated number of employees for engine manufacturer. |
| Engine Manufacturer Name | Manufacturer of engine. |
| Engine Manufacturer Facility Note | Notes on engine production facilities. |
| Engine Manufacturer Notes | Miscellaneous engine manufacturer notes. |
| Engine Manufacturer Other Engine Note | General notes on engine program. |
| Engine Manufacturer Parent (majority) | Name of company with majority ownership of engine manufacturer. |
| Engine Manufacturer Percent Ownership | Parent company ownership portion of engine manufacturer (%). |
| Engine Manufacturer Sales | Sales revenue benchmark of engine manufacturer (normally denoted with year). |
| Engine Manufacturer Spark Ignition Note | Notes on spark ignited engine program. |

Grouping: Engine Model Classification

| Display Value | Description* |
|---------------|---|
| Segment | Intended market segment for engine model use. |



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Grouping: Engine Model Details

| Display Value | Description* |
|---|--|
| Engine Captive Percentage | % of production for engine manufacturer's captive applications. |
| Engine Licensor Name | The organization granting manufacturing rights to the engine manufacturer. |
| Engine Manufacturer Model | Engine model designation given by manufacturer. |
| Engine Manufacturer Model Build Country | Country of engine manufacture. |
| Engine Manufacturer Model Build Region | Region of engine manufacture. |
| Engine Manufacturer Model Series | Common 'family' designation of engine. |
| Engine Manufacturer Model SOP | Engine model 'Start of Production' year. |
| Engine Manufacturer Model EOP | Engine model 'End of Production' year. |
| Engine PSR Model | Model designation that includes specification reference codes. |

Grouping: Engine Model Specs

| Display Value | Description* |
|------------------------------------|--|
| Engine Aspiration | Turbocharged or Supercharged or Naturally Aspirated. |
| Engine Bore (mm) | Engine cylinder bore measured in millimeters. |
| Engine Compression Ratio | The ratio of the volume between the piston and cylinder head before and after a compression stroke. |
| Engine Cooling | Cooling medium associated with each engine (Air or Water or Oil). |
| Engine Crankshaft Plane | Orientation of the engine crankshaft (Vertical or Horizontal plane). |
| Engine Cycle | Number of piston strokes in the engine combustion cycle. |
| Engine Cylinder Configuration | Engine cylinder arrangement. |
| Engine Cylinder Liners | Indicates type of cylinder liners (None or Wet or Dry). |
| Engine Cylinders | Number of combustion cylinders per engine. |
| Engine Displacement (liters) | Metric displacement (liters) of the engine cylinders. |
| Engine Fuel | Specific fuel used. |
| Engine Fuel System | Fuel delivery method (direct injection, carbureted, pressurized, etc.). |
| Engine Height (mm) | Maximum engine height in millimeters - does not include readily demountable equipment. |
| Engine Intercooling | Descriptive treatment of the charge air (Water-Air or Air-Air Cooling or None). |
| Engine Length (mm) | The maximum axial length dimension in millimeters through the axis of the crankshaft (fan to flywheel). |
| Engine Power HP (continuous) | Engine Continuous HP rating Per SAE DIN6270-A (diesel). |
| Engine Power HP (intermittent) | The intermittent horsepower rating per SAE J245 (gasoline) and DIN6270- B (diesel); also defined as the one-hour rating. |
| Engine Power HP RPM (intermittent) | Engine crankshaft speed at which Intermittent HP/kW rating is measured. |
| Engine Power kW (intermittent) | Metric conversion of Intermittent HP Rating. |
| Engine Stroke (mm) | Engine cylinder piston measured in millimeters. |
| Engine Torque (lb-ft) | Maximum rated engine torque per SAE J245 (gasoline) and SAE J270 (diesel) measured in foot pound-force. |
| Engine Torque (N-m) | Maximum rated engine torque per SAE J245 (gasoline) and SAE J270 (diesel) measured in Newton-meters. |

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Grouping: Engine Model Specs (continued)

| Display Value | Description* |
|----------------------------------|---|
| Engine Torque RPM | Engine speed at which maximum torque is measured. |
| Engine Type | Designates basic design / ignition process: Diesel / Compression ignition or Gasoline / Spark ignition. |
| Engine Valves Per Cylinder | Total number of intake and exhaust valves per cylinder. |
| Engine Valvetrain | Designates the basic design of the engine intake and exhaust valve system. |
| Engine Variable Valve Technology | Variable Valve Timing (true or false). |
| Engine Weight (kg) | Engine model dry shipping weight in kilograms. |
| Engine Width (mm) | The maximum horizontal dimension (width) in millimeters perpendicular to the engine crankshaft. |

Grouping: Emissions Data

| Display Value | Description* |
|-----------------------------|---------------------|
| Engine Emissions Compliance | Certification Level |
| Engine Emissions Device | Solutions Strategy |

Grouping: Optional Modules

Turbo Module (Option)

| Display Value | Description* |
|----------------------|----------------------------|
| Turbo Supplier | Manufacturer of the Turbo |
| Turbo Supplier Group | Turbo Supplier parent |
| Turbo Geometry | Fixed or VGT |
| Turbo Layout | Simple or 2-Stage |
| Turbo Quantity | Number of Turbo per Engine |

FIE Module (Option)

| Display Value | Description* |
|-------------------------|--|
| FIE Equipment Type | Common Rail, Direct Gasoline Injection, Electronic Unit Injector, Hydraulic Unit Injector, Inline, Mechanical Unit Injector, Rotary, Unit Pump |
| FIE Nozzle Manufacturer | Manufacturer of the FIE Nozzle |
| FIE Nozzle Country | Country where the FIE Nozzle is Manufactured |
| FIE Nozzles per Engine | Number of FIE Nozzles per Engine |
| FIE Pump Manufacturer | Manufacturer of the FIE Pump |
| FIE Pump Model | Model of the FIE Pump |
| FIE Pump Country | Country where the FIE Pump is Manufactured |
| FIE Pumps per Engine | Number of FIE Pumps per Engine |

* More detailed information on relevant data items may be found in the Engine Specifications Guide.