Components & Consumables

Module Directory



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Introduction

This Components & Consumables Module Directory provides a quick overview of the components data available in the EnginLink[™], OE Link[™], CV Link[™] and PartsLink[™] proprietary databases built and maintained by Power Systems Research (PSR). The modules are not stand-alone products and can be purchased only as part of a subscription/extract to one of the databases, EnginLink[™], OE Link[™], CV Link[™] or PartsLink[™].

For more information: Call +1 650 905 8400, email info@powersys.com, or visit www.powersys.com

Specifications

Engine Oil Specifications

Database: OE Link[™], CV Link[™] and PartsLink[™]

Regions/Segments covered: Medium-Heavy Vehicles (MHV), Light Commercial Vehicles (LCV), Agricultural, Construction, Industrial worldwide

Available fields:

• Engine Oil Spec Grade. Oil Specification recommended by the Engine Manufacturer (i.e. CJ4, ACEA E9)

Engine Oil Capacity

Database: OE Link[™], CV Link[™] and PartsLink[™] Regions/Segments: Medium-Heavy Vehicles (MHV), Light Commercial Vehicles (LCV), Agricultural, Construction, Industrial worldwide

Available fields:

- Oil Capacity Description. Unique characteristics (i.e. Deep Pan, Shallow Pan)
- Oil Capacity (Gallons). Recommended Oil Change Capacity in Gallons
- Oil Capacity (Liters). Recommended Oil Change Capacity in Liters
- Oil Capacity (Quarts). Recommended Oil Change Capacity in Quarts

Engine Oil Change Intervals

Database: OE Link[™], CV Link[™] and PartsLink[™] Regions/Segments: Medium-Heavy Vehicles (MHV), Light Commercial Vehicles (LCV), Agricultural, Construction, Industrial worldwide Available fields:

Engine Oil Change I

- Engine Oil Change Interval (fuel usage)* Recommended amount of fuel used between each oil change listed according to the manufacturer specs
- Engine Oil Change Interval* (hours). Recommended hours between each oil change listed according to the manufacturer specs



Specifications (Continued)

Engine Oil Change Intervals (Continued)

- Engine Oil Change Interval (kilometers).
 Recommended kilometers between each oil change
 listed according to the manufacturer specs
- Engine Oil Change Interval (miles). Recommended miles between each oil change listed according to the manufacturer specs
- Engine Oil Change Interval (months).
 Recommended months between each oil change listed according to the manufacturer specs
- Engine Oil Change Interval Operation. Brief description of type of operation and how it affects oil changes – Normal, Severe – uses manufacturers descriptions
- Engine Oil Change Interval Operation Description. A more detailed description of what the "Operation" means – for example Severe could mean "< 5.5 mpg, and/or > 40% idle time" – uses manufactures descriptions – can and does change among manufacturers
 - *With the exception of some vocational applications, most manufacturers of MHV or LCV do not identify Change Intervals by Fuel Usage or in Hours. These fields apply primarily to other market segments, such as Agricultural or Construction.

Engine Oil Consumption

Database: PartsLink[™]

Regions/Segments: Agricultural, Construction, Industrial worldwide

Available fields:

• Oil Consumed. (Liters)

Emissions

Database: OE Link[™], CV Link[™], PartsLink[™] Regions/Segments: All segments worldwide Available fields:

- Emissions Certification Level. Level of certification met by the engine (i.e. Euro 4, EPA Tier 4)
- Emissions Certifying Agency. Agency that certified the standard (i.e. US EPA, European Union)
- Emissions Solution Strategy. After treatment products utilized to meet the standard (i.e. EGR, DPF, SCR)

Emissions

Database: EnginLink[™]

Regions/Segments: All segments worldwide Available fields:

- Engine Emissions Compliance. Emissions standard (i.e. Euro 4, EPA Tier 4)
- Engine Emissions Device. After treatment products utilized to meet the standard (i.e. EGR, DPF, SCR)

System Voltage

Database: EnginLink[™] Regions/Segments: All segments worldwide. Compression Engines ONLY Available fields:

• Electrical System Voltage. The voltage of the electrical system (i.e. 12 Volt, 24 Volt)

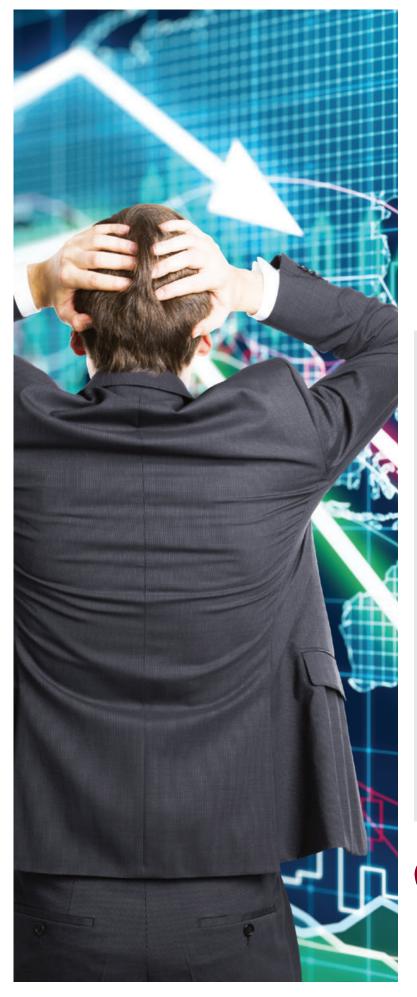
System Voltage

Database: OE Link[™]

Regions/Segments covered – All segments worldwide Available fields:

• Electrical System Voltage. The voltage of the electrical system (i.e.12 Volt, 24 Volt)





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Components

Brake Type

Database: OE Link[™], CV Link[™]

Regions/Segments: MHV United States, Canada and South America

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Available Fields:

• Brake Type (i.e. Air, Hydraulic, Air over Hydraulic)

Cylinder Block Material

Database: EnginLink[™], OE Link[™] Regions/Segments: MHV worldwide Available fields:

• Cylinder Block Material (i.e. CGI, Cast Iron, Aluminum)

Cylinder Head Material

Database: EnginLink[™], OE Link[™] Regions/Segments: MHV worldwide Available Fields:

• Cylinder Head Material (i.e. CGI, Cast Iron, Aluminum)

Fuel Injection Equipment (FIE)

Database: EnginLink[™], OE Link[™] and PartsLink[™] Regions/Segments: All segments worldwide, where applicable

Available fields:

- FIE Equipment Type. Common Rail, Direct Gasoline Injection, Electronic Unit Injector, Hydraulic Unit Injector, Inline, Mechanical Unit Injector, Rotary, Unit Pump
- FIE Nozzle Manufacturer
- FIE Nozzle Country
- FIE Nozzles per Engine
- FIE Pump Manufacturer
- FIE Pump Model
- FIE Pump Country
- FIE Pumps per Engine

Generators (Alternators)

Database: OE Link[™]

Countries Covered: Germany and the UK Available fields:

- Generator Ambient Temp. The temperature used during the factory test to certify the ratings
- Generator Application. The application where the gen set is used (i.e. Stand-by, Cogeneration, base load)
- Generator Brand. The Brand used to commercialize the Generator
- Generator IP Level. The certified IP Level of the generator. (For more info on all IP levels and their description please visit http://en.wikipedia.org/wiki/ IP_Code)
- Generator Model. The model name of the generator
- Generator Platform. Code utilized by the generator suppliers to identify the platform/frame size of the generator. (Not all the suppliers use this code.)
- Generator Pole Count. Number of poles of the generator
- Generator Power kVA. The rating of the generator in kVA. If not specified by the gen set supplier, the standard rating is the stand-by rating
- Generator Power kW. The rating of the generator in kW. If not specified by the gen set supplier, the standard rating is the stand-by rating
- Generator Supplier. The actual manufacturer of the generator
- Generator Type. There are 2 options available for this filed: Synchronous or Asynchronous
- Generator Voltage. The voltage used in the configuration



Components (Continued)

Rear (Drive) Axle

Database: OE Link[™], PartsLink[™]

Regions/Segments: Trucks Class 4 through 8, North America, All Years

Available Fields:

- Drive Type (i.e. 4x2, 6x2, 6x6)
- Axle Manufacturer. Who manufacturers the Rear (Drive) Axle.
- Axle Lubricant Specification. OEM recommended axle fluid specification.
- Axle Lubricant Viscosity. OEM recommended axle fluid viscosity.
- Axle Lubricant Capacity (Pints, Liters) Recommended fluid change capacity in Pints or Liters.
- Axle Lubricant Chemistry (i.e. Mineral, Synthetic)

Transmissions

Database: OE Link[™], CV Link[™] and PartsLink[™] Regions/Segments: MHV, LCV worldwide Available fields:

- Transmission Manufacturer. Who manufactures the transmission
- Transmission Brand. Brand name under which the transmission is sold
- Transmission Model.
- Number of Forward Gears.
- Number of Reverse Gears.
- Transmission Design. Manual, Automatic, AMT, etc.
- Transmission Production Country.

PLEASE NOTE: Transmission data is based on the equipment model, not the engine model.

Transmissions

Database: OE Link[™], PartsLink[™]

Regions/Segments: Off-Highway, Agricultural, Construction, Industrial, worldwide. Available fields:

- Transmission Design. (i.e. Manual, Powershift, Hydrostatic)
- Transmission Manufacturer. Who manufactures the Transmission

PLEASE NOTE: Transmission data is based on the equipment model, not the engine model.

Turbos

Databases: EnginLink[™], OE Link[™] and PartsLink[™] Regions/Segments: All segments worldwide, where applicable

Available fields:

- 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.









Consumables

Batteries

Database: OE Link[™], Parts Link[™] Available fields:

- Battery Group Size. Group Size identifies the basic dimensions and polarity of the battery
- Battery CCA. Cold Cranking amps at 0 degrees Fahrenheit
- Battery Quantity. Number of batteries per application
- Comments. Additional information required to fit correct battery

Regions/Segments for Batteries

MHV and Recreational Products, worldwide Agricultural Equipment, worldwide for the following Applications & Products

- Ag Tractors
- Balers
- Combines
- Other Ag Equipment
 - Ag Mowers
 - CRVs
 - Harvesters
 - Other Ag Equipment Self-Propelled

Construction Equipment, worldwide for the following Applications & Products

- Crawlers
- Excavators
- Forestry Equipment
 - Feller Bunchers
 - Forwarders
 - Log Loaders Self-Propelled
 - Skidders
 - Tree Harvesters
- Graders
- Off-Highway Tractors
- Off-Highway Trucks
- Pavers
- Rollers
- Scrapers
- Skid-Steer Loaders
- Tractor/Loader/Backhoes
- Trenchers
- Wheel Loaders & Dozers

Batteries (Continued)

Power Generation, worldwide for the following Applications and Products

• APUs

Industrial Equipment, worldwide for the following Applications and Products

• Utility Vehicles

All other Segments, US and Canada, Lawn & Garden, Light Commercial Vehicles, Industrial, Minivans and SUVs and Passenger Cars.

Spark/Glow Plugs

Databases: EnginLink[™], OE Link[™] and PartsLink[™] Regions/Segments covered: Agricultural, Construction,

Industrial, Lawn & Garden, Marine, Medium-Heavy Vehicles (MHV), Power Generation and Recreational Products worldwide

Available Fields:

- OEM Spark/Glow Plug Supplier
- OEM Spark/Glow Plug Number
- Spark Plug Gap Size in Inches

Tires

Database: OE Link[™]

Regions/Segments: Most off-highway products worldwide

Available fields:

- Standard Front Tire
- Standard Rear Tire
- Tires per Vehicle
- Tire Spec
- Tire Width
- Rim Diameter
- Tire Type
- Tire Brand
- TRA Code



More than 40 Years of Growth: PSR Milestones

1976	 PSR Founded in Grantsburg, WI USA EnginLink[™] Launched
1981 1984 1985 1986	 PartsLink[™] Launched OE Link[™] Launched All databases are available on personal computers via diskettes.
1992	 Compass Survey Center™ Acquired 25 Employees
2000 2007 2008	 MarineLink[™] Launched
2011 2012 2015 2016	 PSR Opens in Brazil PSR Opens in India PSR Opens in Russia PSR China – Subsidiary Launched PSR India – Subsidiary Launched 8 Offices, 200 Countries, 4 Continents Billions of Data Points











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About Power Systems Research

Power Systems Research (PSR), established in 1976, is the leading source of data, analysis and forecasting on the global production of engines and enginepowered equipment, including class 8 vehicles. One of its databases, OE Link[™], includes production figures down to the model level for OEMs in key market segments, such as commercial vehicles. PSR's global research network includes eight offices and stretches across 200 countries and four continents.

