



# The Pacific Pipeline

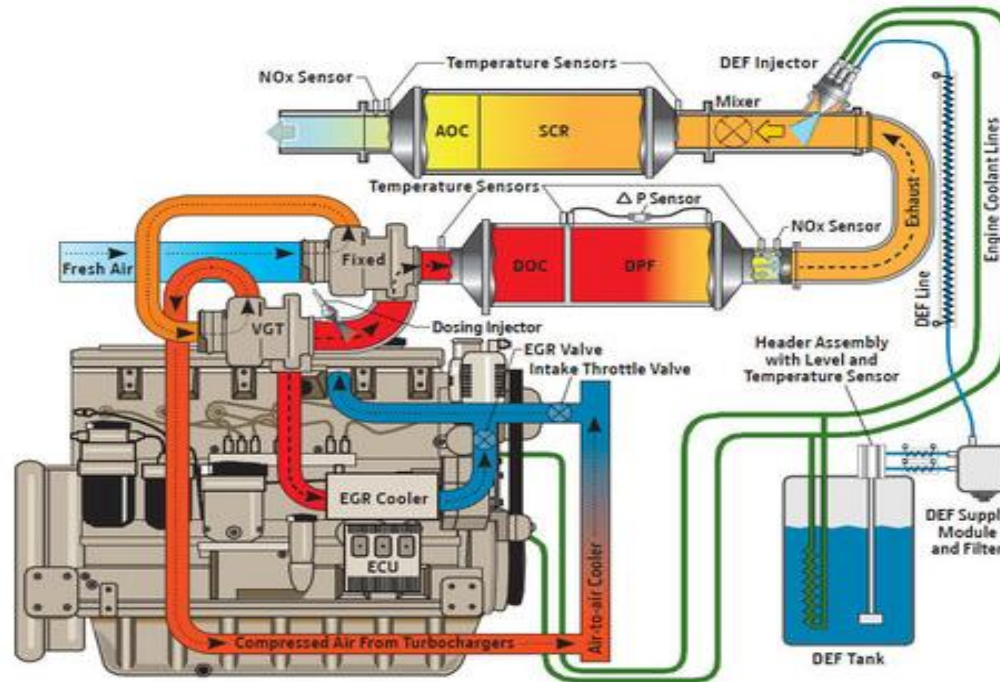
The Monthly Newsletter of Pacific Pump and Power

Rental • Sales • Service • Operations

January 2015

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## Understand New Final Tier 4 Standards



Over the last 18 years, the Environmental Protection Agency (EPA) increased the regulations by implementing a diesel emission program to restrict the nitrogen oxide (NOx), carbon monoxide (CO), particulate matter (PM), and non-methane hydrocarbons (NMHC) emissions from diesel exhaust. This program reduced emissions by implementing a series of Tiers that have had increasingly stringent requirements over time. 2015 is an important year because it is the final year of this implementation, which means that as of this year, diesel engines sold in the United States need to adhere to these final Tier 4 regulations to meet the 99% reduction. (Note there are exceptions to this. For full details on these federal requirements, see the US Government publishing office, electronic code or federal regulations, EPA, Title 40 Protection Of Environment, [http://www.ecfr.gov/cgi-bin/text-idx?SID=025fe345de0f8a2006d73126b427e656&node=se40.33.1039\\_1101&rgn=div8](http://www.ecfr.gov/cgi-bin/text-idx?SID=025fe345de0f8a2006d73126b427e656&node=se40.33.1039_1101&rgn=div8)).

The EPA says the 99% reduction in NOx emissions on off highway diesel vehicle will reduce the USA's impact on greenhouse gases. What is the impact to you, the end users and purchasers of new equipment?

What is the present economic impact for this greener tomorrow? These new implementations will be costing you more green today. The cost of a diesel engine has jumped roughly 30-40% from iT4 to Final T4; even more of a jump if you compare it to the 18 year old Tier 1 engines.

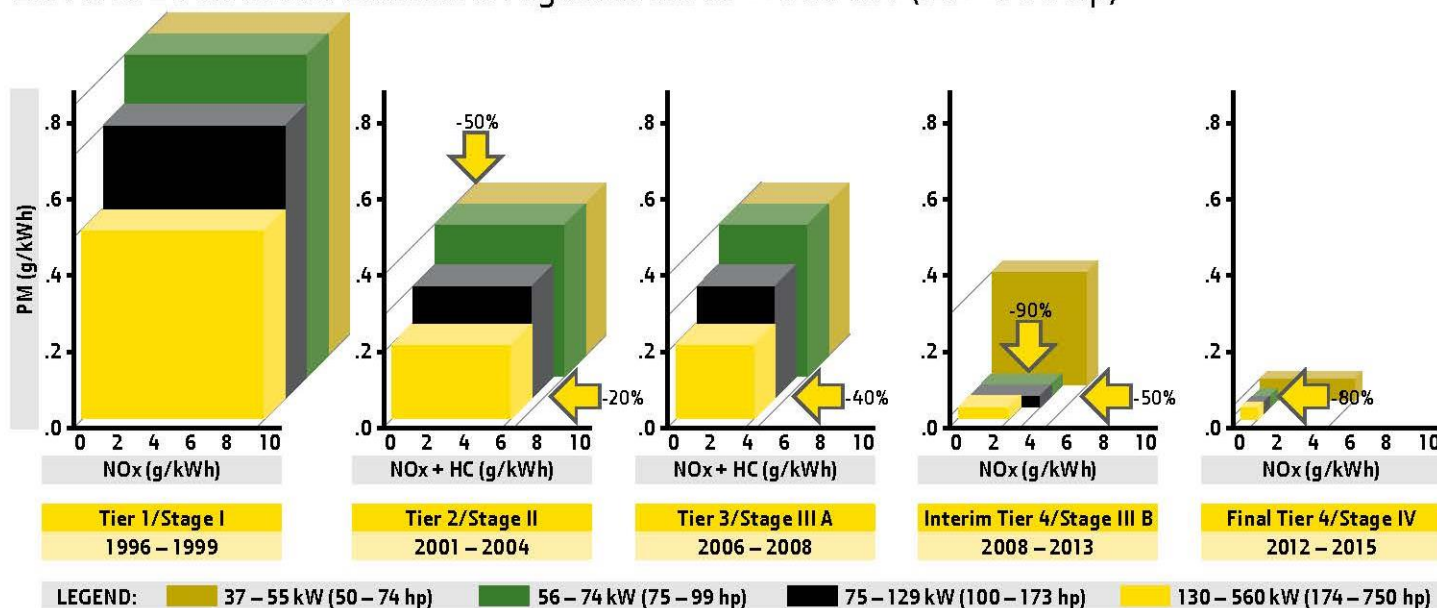
So what extras am I paying for? In order to comply with these stringent EPA standards, engine manufacturers have had to do a range of things to the engines.

- More Precision Injection Timing: manufacturers have switched to electrically controlled injector solenoids that are more efficient.
- High-Pressure Common-Rail Fuel Injection: this assists to improve the combustion by helping it burn more completely and at a faster rate.
- Advanced Turbocharging: The turbo charger automatically compensate for changes in engine speed, resulting in higher thermal efficiency and, thus, produces more power than conventional turbo chargers, without increasing the emissions.
- Horse Power Optimization: new sensors and electronic engine controls have been added to monitor the engine's performance so it is able to optimize the efficiency.
- After Treatment of the Exhaust: manufacturers have done this in multiple ways; some using diesel exhaust fluid, filters, and recirculation. The fluid converts the NOx to nitrogen and water, the filter catches the TM, and the recirculation heats the exhaust to automatically clean the filter.

We do still have limited availability of iT4 equipment that we can sell. So, if you are thinking about purchasing new pumps, generators, air compressors or light towers, contact us about it before they are all gone.

If there is anything we can do to help you with your equipment, big or small, do not hesitate to call 808-672-8198, **anytime**, or email us at [Sales@HawaiiPumps.com](mailto:Sales@HawaiiPumps.com).

EPA and EU nonroad emissions regulations: 37 – 560 kW (50 – 750 hp)



Source: [http://bellpower.com/uploads/product\\_brochures/4\\_IT4\\_FAQ%5B1%5D.pdf](http://bellpower.com/uploads/product_brochures/4_IT4_FAQ%5B1%5D.pdf)

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Pump Type	Quantity	Pump Model and Description
<b>Oahu Yard</b>		
Godwin Dri-Prime CD Series Pumps, High Volume, Medium Head, Large Solids-Handling Capabilities	48 AVAILABLE	<ul style="list-style-type: none"> <li>DPC300 12" Diesel, up to 5000 gpm or up to 115' of head</li> <li>DPC300 12" Electric, up to 4000 gpm or up to 115' of head</li> <li>CD225 8" Diesel, up to 3100 gpm or up to 183' of head</li> <li>CD225 8" Electric, up to 3100 gpm or up to 175' of head</li> <li>CD150M 6" Diesel, up to 1700 gpm or up to 160' of head</li> <li>CD103M 4" Diesel, up to 1000 gpm or up to 170' of head</li> <li>CD100M 4" Diesel, up to 750 gpm, or up to 115' of head</li> <li>CD80M 3" Diesel, up to 450 gpm or up to 93' of head</li> <li>NC80 3" Diesel, up to 530 gpm or up to 109' of head</li> </ul>
Godwin HL Series, High Head Pumps with Solids-Handling Capabilities	8 AVAILABLE	<ul style="list-style-type: none"> <li>HL150M 6" Diesel, up to 1450 gpm or up to 500' of head</li> <li>HL80M, 3" Diesel, up to 450 gpm or up to 325' of head</li> </ul>
Godwin Heidra Hydraulic Submersibles	6 AVAILABLE	<ul style="list-style-type: none"> <li>HS150VSG 6", Diesel, up to 1600 gpm or up to 160' of head</li> <li>HS150V 6", Diesel, up to 1600 gpm or up to 160' of head</li> <li>HS100TD 4", Diesel, up to 800 gpm or up to 130' of head</li> <li>HS80HH 3", Diesel, up to 420 gpm or up to 125' of head</li> </ul>
Electric Submersibles	33 AVAILABLE	<ul style="list-style-type: none"> <li>Godwin GSP600SV, 8", up to 3650 gpm or up to 82' of head</li> <li>Godwin GSP160HV, 6", up to 1200 gpm or up to 115' of head</li> <li>Godwin GSP55, 4", up to 550 gpm or up to 75' of head</li> <li>Stancor SSS-100, 2" Stainless, 100 gpm or up to 60' of head</li> <li>Stancor SSS-75, 2" Stainless, 80 gpm or up to 40' of head</li> <li>Stancor SV-50, 2" Stainless, 80 gpm or up to 40' of head</li> <li>Flygt Ready 8S, 2" Submersible, 80 gpm or up to 35' of head</li> <li>Flygt 2740 SS sludge series 244HT, 210 gpm or up to 80' of head</li> <li>Flygt 2740 SS drainage series B267 HT, 210 gpm or up to 150' of head</li> </ul>
Wet-Prime Gas Trash Pumps	18 AVAILABLE	<ul style="list-style-type: none"> <li>WT40X 4" up to 430gpm or up to 92' of head</li> <li>Godwin GTP50HX 2" up to 185 gpm or up to 98' of head</li> <li>Godwin GTP80HX, 3" up to 355gpm or up to 90' of head</li> <li>Godwin GTP100HX, 4" up to 430 gpm or up to 92' of head</li> <li>Multiquip QP4TH 4" up to 555 gpm or 92' of head</li> </ul>
Versamatic Diaphragm Pumps	9 AVAILABLE	<ul style="list-style-type: none"> <li>Versamatic Air Operated E3, 3", up to 260 gpm</li> <li>Versamatic Air Operated E2, 2", up to 155 gpm</li> </ul>
Power Diesel Generator Sets	3 AVAILABLE	<ul style="list-style-type: none"> <li>Godwin 26kW-R Series, Critically Silenced</li> <li>125kVA MultiQuip WhisperWatt</li> <li>Kubota 10kw</li> </ul>
Gasoline Generator Sets	2 AVAILABLE	<ul style="list-style-type: none"> <li>3000 &amp; 2000 Watt, Portable Honda Quiet Model</li> </ul>
Godwin Portable Light Towers	3 AVAILABLE	<ul style="list-style-type: none"> <li>GLT 416, 4000 Watts, Coverage of 5-7 acres</li> </ul>
Road Ramp Crossings	9 AVAILABLE	<ul style="list-style-type: none"> <li>4", 6", 8" and 12" Road Ramps Crossings</li> </ul>
Air Compressor	2 AVAILABLE	<ul style="list-style-type: none"> <li>Ingersoll Rand 250 CFM air compressor with pneumatic hose reel</li> <li>Airman PDS185S</li> </ul>
Freight Liner Water Truck	1 AVAILBALE	<ul style="list-style-type: none"> <li>2000 Gallon</li> </ul>
Hydraulic Hoses	2150 FEET	<ul style="list-style-type: none"> <li>1/4", 1/2", 3/4" and 1" Hydraulic Hose with Couplers</li> </ul>
Heavy Duty Hoses	14,512 FEET	<ul style="list-style-type: none"> <li>2", 3", 4", 6", 8", and 12" Heavy Duty Suction and Discharge</li> <li>Hose Available with Quick Disconnect Fittings</li> </ul>
Bauer Light Weight, Quick Disconnect Pipe	6,319 FEET	<ul style="list-style-type: none"> <li>4", 6", 8", and 12" Bauer Light Weight Quick Disconnect Pipe in 10' and 20' Lengths</li> </ul>
Pump Accessories	4000 IN STOCK	<ul style="list-style-type: none"> <li>Bauer and Camlock Fittings from 2-12" Available</li> </ul>
HDPE Pipes and Fittings	9,210 FEET	<ul style="list-style-type: none"> <li>18" DR 26 and 18" DR 32.5 HDPE Pipe</li> <li>12" DR11 HDPE Pipe</li> <li>2", 3", 4", 6", 8", 10, 12", 14" 18", 24" HDPE Fittings</li> </ul>
Pump Parts	1600 IN STOCK	<ul style="list-style-type: none"> <li>Common Wear Parts for all Pumps Already in Stock</li> </ul>
Pipe Plugs	50 AVAILABLE	<ul style="list-style-type: none"> <li>4-8", 6", 8-12", 12-18", 18-24", 15-30", 24-36" and 24-42", 24-48", 84" with Protective Sleeves and Poly-Lift Line Inflators</li> </ul>
McElroy Fusion Machines	9 AVAILABLE	<ul style="list-style-type: none"> <li>T500 II fuses 6-20" HDPE, Rolling 618 fuses 6-18" HDPE, Rolling 28 fuses 2-8" HDPE</li> <li>PitBull 26 fuses 2-6" HDPE, 2LC fuses 1/2-2", Pitbull 14 fuses 1-4"</li> </ul>
McElroy Parts	146 In STOCK	<ul style="list-style-type: none"> <li>Assorted parts and inserts</li> </ul>
<b>Maui Yard</b>		
Bauer Light Weight, Quick Disconnect Pipe	370 FEET	<ul style="list-style-type: none"> <li>6" Bauer Light Weight Quick Disconnect Pipe in 10' and 20' Lengths</li> <li>8" Bauer Light Weight Quick Disconnect Pipe in 10' and 20' Lengths</li> </ul>
Heavy Duty Hoses	120 FEET	<ul style="list-style-type: none"> <li>6" Heavy Duty Suction Hoses Available with Quick Disconnect Fittings</li> </ul>
Road Ramp Crossings	1 AVAILABLE	<ul style="list-style-type: none"> <li>6" Road ramp crossing</li> </ul>
Gasoline Generator Sets	1 AVAILABLE	2000 Watt, Portable Honda Quiet Model



The Pacific Pump and Power Team: Ka'imi, Kamaka, Angelica, Rhussell, Paul, Arlo, Kristin, Jeremy, and Eric (A'Alona and Jeff were not available for the photo)



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