

EMISSIONS MONITORING for Product Health Connect[®]

A data-driven solution designed to make emissions reporting simple.



PRODUCT HEALTH CONNECT[®]

Louisiana Cat's Product Health Connect[®] is an advanced remote monitoring system for your engine assets. The system compiles the engine ECM data into organized reports, allowing you to better manage your vessel. Built-in analytics alert you to identify potential trouble on the horizon and sends notifications when further investigation is necessary.

You depend on your engines to perform and when questions arise, you need answers quickly. Having this data aids in remote diagnostics and often allows for issue resolution while at sea. When a technician is necessary, having the data in hand before being dispatched aids in the ability to have the required parts when arriving at the vessel.

The system is designed to give you the necessary data to respond as quickly as possible, when needed.



EMISSIONS MONITORING

Your emissions profile is part of your product; you need to collect it easily and reliably. Whether reporting annually, by job, or operating mode, the Product Health Connect[®] Emissions Module enables you to report over a date range by engine, vessel, or fleet.

The Emissions Monitoring Suite compiles fuel injection commands and applies regulatory emissions factors specific to your engine type, tier, year, displacement and power rating.

An online portal gives you instantaneous access to emissions estimates by engine, by vessel, and by fleet over a selectable date range for simple disclosures for your regulators and your customers.

Louisiana CAT

Vessel: M/V Customer Vessel Report Generation Date: September 19, 2024
 Dates: September 1, 2024 - September 9, 2024 Fuel Sulfur Content Assumed: 15 ppm

Engine Serial	T3P00###1	T3P00###2	SDN00###3	SDN00###4	RNY00###5	RNY00###6	RNY00###7	Total
Run Time (hr)	513.10	513.50	302.69	650.24	253.84	695.32	126.52	3055.21
Fuel (USG)	12278.00	10409.90	7243.09	15559.63	6074.15	16638.35	3027.50	71230.63
CO2 (mt)	126.0232	106.8487	74.3441	159.7083	62.3460	170.7785	31.0747	731.1215
N2O (mt)	0.006163	0.005225	0.003636	0.007810	0.003049	0.008352	0.001520	0.035754
CH4 (mt)	0.000371	0.000315	0.000219	0.000470	0.000073	0.000201	0.000037	0.001685
CO2-e (mt)	127.6667	108.2422	75.3137	161.7891	63.1560	172.9973	31.4785	740.6434
NOx (mt)	0.892124	0.756387	0.521909	1.121167	0.119284	0.326743	0.059454	3.797067
SO2 (mt)	0.001159	0.000982	0.000683	0.001488	0.000573	0.001570	0.000286	0.006721
CO (mt)	0.204020	0.172978	0.098473	0.211541	0.100932	0.276475	0.050307	1.114727
HC (mt)	0.018547	0.015725	0.010941	0.023505	0.003670	0.010054	0.001829	0.084272
PM (mt)	0.012983	0.011008	0.007659	0.016453	0.002753	0.007540	0.001372	0.059788

Glossary

CO2 - Carbon dioxide
 N2O - Nitrous oxide
 CH4 - Methane
 CO2-e - Carbon dioxide equivalent
 PM10 - Particulate matter, 10µm in diameter or less

NOx - Nitrogen oxides
 SO2 - Sulfur dioxide
 CO - Carbon monoxide
 HC - Unburnt hydrocarbons

Emission Reporting Emission Reporting Filters History - Previous month Edit mode

Engines By Vessel

Engine Serial	Vessel	Run Time (Hours)	Fuel (Gallons)	CO2 (mt)	N2O (mt)	CH4 (mt)	CO2-e (mt)	NOx (mt)	SO2 (mt)	CO (mt)	HC (mt)	PM (mt)
T3P00###1	Customer Vessel	513.1	12278.00	126.02	0.006163	0.000371	127.67	0.892124	0.001159	0.204020	0.018547	0.012983
T3P00###2	Customer Vessel	513.5	10409.90	106.85	0.005225	0.000315	108.24	0.756387	0.000982	0.172978	0.015725	0.011008
SDN00###3	Customer Vessel	302.69	7243.09	74.34	0.003636	0.000219	75.31	0.521909	0.000683	0.098473	0.010941	0.007659
SDN00###4	Customer Vessel	650.24	15559.63	159.71	0.007810	0.000470	161.79	1.121167	0.001488	0.211541	0.023505	0.016453
RNY00###5	Customer Vessel	253.84	6074.15	62.35	0.003049	0.000073	63.16	0.119284	0.000573	0.100932	0.003670	0.002753
RNY00###6	Customer Vessel	695.32	16638.35	170.78	0.008352	0.000201	173.00	0.326743	0.001570	0.276475	0.010054	0.007540
RNY00###7	Customer Vessel	126.52	3027.50	31.07	0.001520	0.000037	31.48	0.059454	0.000286	0.050307	0.001829	0.001372



Our state of the art Product Health Center facilities in Reserve and New Iberia, La, are staffed with a top level team whose primary goal is to reduce your owning and operating costs, while providing you with maximum engine up-time.

20 Gases

Estimate up to 20 greenhouse gases and pollutants, compatible with any electronic engine. Our system gives you the flexibility to monitor a wide range of emissions while integrating seamlessly with your fleet, ensuring consistent data collection.

GHG	Pollutants	Unburnt HC	Metals	Particles
CO ₂	NO _x	C12H10-xClx	Ni	PM10
CH ₄	SO ₂	C8H18	Pb	PM2.5
N ₂ O	CO	C6H14	Mn	BC
CO ₂ e	Other	C20H12	Hg	
	NH ₃	C22H12	Cr	

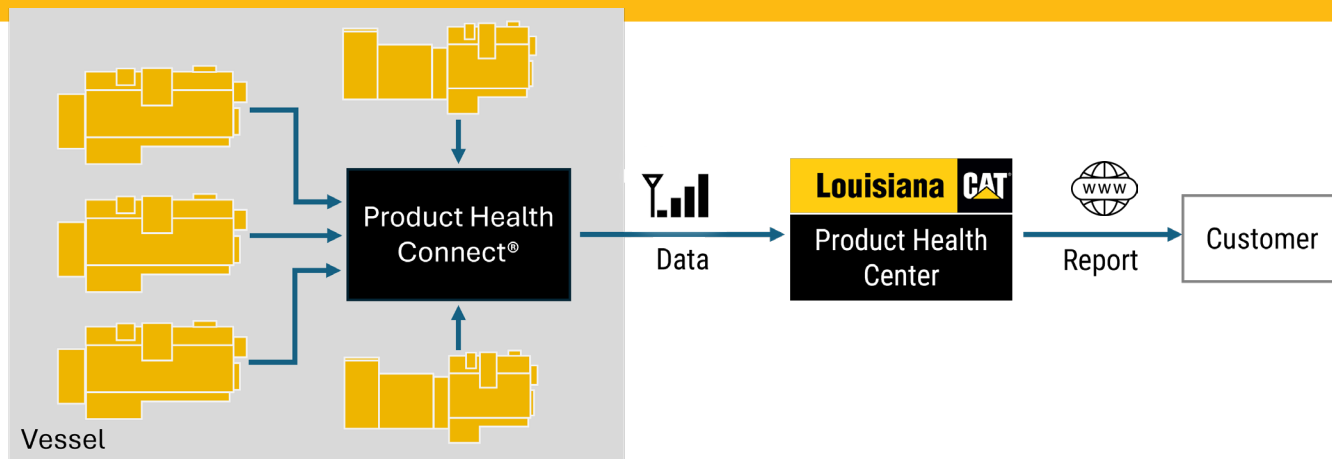
Easy Install

No exhaust penetrations, no gas-freeing and no hot work means no added downtime. With Product Health Connect® – it's just a remote software update. Our technicians are on hand for immediate support, ensuring your engines keep running smoothly with minimal interruption.

Numbers You Can Trust

Built on the volume of fuel directed to each injector, our calculations are transparent, reproducible and grounded in regulatory factors. Estimates are customized for EPA engine tier, power rating, cylinder displacement and build year. No calibration required. Remove guesswork with reliable data you can trust.

Ask us about our whitepaper for the full breakdown.



OUR COMMITMENT TO OUR CUSTOMERS

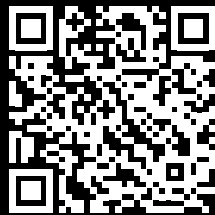
For over 90 years, Louisiana Cat has provided businesses and citizens of Louisiana with products and services that continually improve the quality of life and the environment by fulfilling society's need for infrastructure including shelter, clean water, transportation and reliable energy – in a sustainable way. We provide our customers with new products, technologies and services to support their and our interest in a reduced-carbon world.

OUR APPROACH

Our approach to sustainability builds upon the standards, culture, and commitment to responsible business conduct that have long characterized the way we work. Our choice is, and has always been, to be responsible stewards of our environment and our communities.



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TO CONTACT US**



Louisiana 