

Lake Charles Refinery Saves Hundreds of Thousands of Dollars Per Day in Compressor Costs & Downtime with CITGO® CompressorGard® XA 200

The CITGO Lake Charles Refinery is the seventh largest refining facility in the United States. It consists of a modern, deep-conversion facility with a crude oil refining capacity of 479,000 barrels per day (bpd). Reducing downtime of its compressors is critical to keeping operations running smoothly and efficiently.

The CITGO Lubricants Technical team, along with Breaux Petroleum, recommended the refinery run its high-pressure reciprocating compressors on CITGO CompressorGard XA 200 to limit polymerization within the machines. This oil is specifically engineered for use in reciprocating compressors subjected to sour, wet, high-pressure gases found in refineries, gas compression stations and fertilizer plants.

Upgrading to CompressorGard XA 200 allowed the refinery to use the oil in the frame and running gear including the main bearings and crossheads of the compressor. They were also able to use the fluid in the cylinders and packing. This allowed them to use the same oil in both locations which would prevent any kind of compatibility issues or getting them swapped, which could potentially lead to downtime.

*“When we switched to CITGO CompressorGard XA 200, all of the polymerization problems we had went away. It covers a wide range of operating conditions, and **we’ve gone from celebrating a week of runtime to now a year or more of runtime.**”*

– Garret Keeney, Central Maintenance Manager
CITGO Lake Charles Refinery

CompressorGard XA 200 contains state-of-the-art premium rust and corrosion inhibitors and does not contain barium. This lubricant also has outstanding demulsibility, excellent thermal and hydrolytic stability and can resist gelling when contaminated with water.

The Reliable Approach to Sales

Compressors play a critical role in processing crude oil into gasoline and are important for hydrogen services and hydrotreaters. If they go down, the unit operation would stop. That is why a good lubricant is essential to prevent issues that could affect these machines. In 2012, the Lake Charles Refinery experimented with CompressorGard XA 200 into one machine and then slowly integrated it into all the machines in the refinery with great success ever since.



CITGO Lake Charles Refinery Profile

- Built in 1944
- Located in Lake Charles, Louisiana
- Geographic Size: 2,000 acres
- Ship Channel Docks: 4
- Waste Water Treatment Plants: 1
- Avg. Gasoline Production Capacity: 209,500 bpd
- Avg. Crude Capacity: 479,000 bpd
- Produces liquid petroleum gas, butane, gasoline, premium gasoline, high octane blendstocks, jet fuel, ultra-low sulfur diesel, benzene, toluene, xylene, propylene, sulfur, decant oil and petroleum coke
- Industries served: retail and commercial fuel, aviation fuel, petrochemical, industrial fuels, cooking and camping fuels, and heating and lighting fuels

*"Instead of changing out the valves every two to three months, the Lake Charles Refinery extended it to **two years without any kind of changeouts** since using CITGO CompressorGard XA 200. This **saved them hundreds of thousands of dollars per day** in keeping the equipment up and running."*

– Mike Pryor, Vice President, Sales,
Breux Petroleum



Featured CITGO, Mystik® and Clarion® Products Used at Lake Charles Refinery:

COMPRESSOR LUBRICANTS

CITGO PACEMAKER® OIL 100
CITGO PACEMAKER OIL 150
CITGO PACEMAKER Oil 320
CITGO PACEMAKER OIL SAE 220
CITGO COMPRESSORGARD DE 100
CITGO COMPRESSORGARD DE 68
CITGO COMPRESSORGARD PAO 100
CITGO COMPRESSORGARD PAO 150
CITGO COMPRESSORGARD PAO 32
CITGO COMPRESSORGARD PAO 68
CITGO COMPRESSORGARD XA 200

GENERAL PURPOSE LUBRICANT

CITGO SENTRY® 32

GREASES

MYSTIK HIGH SPEED COUPLING
MYSTIK JT-6® HIGH TEMP #2 GREASE
MYSTIK LITHIUM EP #2 GREASE
MYSTIK LITHOPLEX® 3% MOLY #2 GREASE
MYSTIK LITHOPLEX MP #2 GREASE

BARRIER FLUIDS

CITGO BARRIER FLUID
CLARION SYNBAR® 22

TURBINE OILS

CITGO PACEMAKER OIL T-32
CITGO PACEMAKER OIL T-46
CITGO PACEMAKER OIL T-68

AUTOMATIC TRANSMISSION FLUID

CITGO TRANSGARD® TYPE F ATF

GEAR OILS

CITGO PREMIUM GEAR OIL MP 80W90
CITGO EP COMPOUND 100
CITGO EP COMPOUND 150
CITGO EP COMPOUND 220
CITGO EP COMPOUND 460
CITGO EP COMPOUND 680

HYDRAULIC OILS

CITGO HYDURANCE® AW FLD 32
CITGO HYDURANCE AW NZ FLD 46
CLARION GREEN A/W OIL 46
CLARION GREEN A/W OIL 68



SCAN TO WATCH THE
TESTIMONIAL VIDEO

To place an order, contact Order Management at 800-331-4068. For additional product information or technical support, contact LubesHelp@CITGO.com or 800-248-4684.

