

HDAX® 7200 TESTIMONIAL

# EXTERRAN® MIDDLE EAST



## Achieves +25,000 hours of engine life using HDAX® 7200 LA SAE 40 & Caltex LubeWatch® program

Exterran's Middle East Oilfield compression operations in Bahrain and Oman have been using HDAX® 7200 and Caltex LubeWatch® for over three years. Exterran® gathers and compresses oilfield gas for re-injection and transmission - mechanically demanding activities in the hot and dusty desert conditions of the Middle East. The compressor engines operate in summer temperatures of up to 55°C.

Reliable lubrication and cooling is extremely important. The gas engines and piston gas compressors experience severe operating conditions – Exterran® typically has very high equipment demand and up time requirements regardless of the environmental conditions.

"Exterran® operates gas engines and piston-type compressors in oilfield operations in the hot desert climate of the Middle East. Since 2011, we operated a wide variety of engines from different manufacturers using HDAX® 7200. We have achieved more than 25,000 hours of engine durability on gas engines, and that has resulted in savings due to the protection of engine parts that typically have not required replacement at lower hours.

We currently change the oil every 6 months (4,000 hours) and, thanks to the robust formulation of HDAX® 7200 LA SAE 40 in combination with Caltex LubeWatch®, we have had no unscheduled down time. It is important to use a premium oil, and we feel HDAX® 7200 is just that," says Dale Bartlett, Director, Exterran® Technical Services.



*After more than 25,000 total severe service hours using HDAX® 7200, Exterran® had their engines inspected, and a visual review of the parts showed very good protection and performance even under these severe operating conditions.*

We ran more than 900 HDAX® 7200 oil samples through the LubeWatch® system over the last three years in order to monitor oil condition. In 2014, we were able to reduce severity 4 alerts to less than 5% of the overall total by proactively using the LubeWatch® program. In all cases, Acid number and Base number remained within limits, while Oxidation and Nitration were below alert levels despite the extreme operating conditions.

A major concern in our operation is avoiding a high rate of nitration and oxidation within the lubricating oil. In the course of daily engine operation as the oil is splashed onto the cylinder walls and is wiped down, acidic compounds formed during the combustion process are washed into the crankcase. There they form sludge and varnish since these compounds are soluble in oil up to certain limits. They eventually drop out to form varnish deposits around the rocker arm, valve assembly and piston skirts. Additionally, these deposits cause oil rings to stick, increase oil consumption and shorten filter life.

"The top end of the engines inspected showed no deposit buildup and were clean. We operate in demanding conditions, and I'm very pleased to say HDAX® 7200 is not one of the things I have to worry about. HDAX® 7200 and LubeWatch® demonstrate reliability, which helps us Run Better Longer," said Dale Bartlett, Director, Exterran® Technical Services.



**Chevron Reliability** — The RBL™ Program is our commitment of business support and reliability: Chevron's lubrication expertise combined with superior products and a tailored service program work together to help your business Run Better Longer.

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