



NG CompOil AW 150, 220 LOW TEMPERATURE NATURAL GAS COMPRESSOR FLUID

Introduction

Petro-Canada's low temperature natural gas compressor fluids NG CompOil AW 150 and 220 are specially designed for use in the frame and cylinders/packings of reciprocating compressors in natural gas production and service. They are intended for the compression of sweet, mostly light hydrocarbon gases at low pressure <2000 psig.

With excellent water separation and anti-wear properties, they provide an excellent alternative to stationary gas engine oils which are often used when the frame and cylinders share a common lubricant reservoir.

This mineral oil based fluid has excellent low temperature properties for cold starts where heating is not available.

Features and Benefits

- **Low temperature pumpability minimizes wear in cold temperature starts**
- **Excellent water separation**
- **Excellent anti-wear properties provide surface protection for the frame components including crankshaft, bearings, crosshead pins and bushings.**
- **Excellent oxidation stability**
- **Good foam control**
- **Protects equipment from corrosion due to water**
- **Cost effective, R&O type formulation**

Applications

NG CompOil AW 150 / 220 compressor fluids can be used to lubricate the frame and cylinders / packings for reciprocating compressors in natural gas field booster service.

NG CompOil AW 150 / 220 are specifically recommended for:

- Compression of Pipeline quality natural gas under low pressure, <2000 psig
- Natural gas with water and heavy hydrocarbons including conditions where Methane <90%, propane >8% and specific gravity >0.7 g/mL under low pressure
- Cylinder/packing lubricant in select applications where strong water separation, and no detergent are preferred
- Not for use with sour gas streams
- Available in ISO 150, 220 viscosity grades

For more detailed recommendations on cylinder packing lubrication for various gas stream components, please contact your Petro-Canada Tech Services advisor. TechBulletin TB-1105 Reciprocating Compressor Cylinder Packing Lube Oil Recommendations is also available for general guidance.

What is the HT difference?

Petro-Canada starts with the HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



Typical Performance Data

PROPERTY	TEST METHOD	NG COMPOIL AW 150	NG COMPOIL AW 220
ISO grade		150	220
Appearance		Light amber	Amber
Density, kg/L at 15°C/59°F	ASTM D4052	0.8786	0.8879
Kinematic Viscosity cSt at 40°C/104°F cSt at 100°C/212°F	ASTM D445	140.5 14.41	218.0 19.15
Viscosity Index	ASTM D2270	101	99
Flash point, COC, °C/°F	ASTM D92	277/530	291/556
TAN, mg KOH/g	ASTM D664	0.15	0.14
Pour point °C/°F	ASTM D5950	-33/-27	-30/-22
4-ball weld, lbs	ASTM D2596	160	160
Mechanical Emulsion, 82°C/180°F	ASTM D1401	41-39-0 (10)	41-39-0 (15)
4-ball wear scar diameter (40 kg, 1200 rpm, 75C, 1h), mm	ASTM D4172	0.44	0.43

The values quoted above are typical of normal production. They do not constitute a specification.

Exceeds the requirements of ANSI/AGMA F-16, 2016 inhibited (R&O) lubricants.

For more detailed recommendations for various gas streams and conditions, contact a Petro-Canada Technical Services Advisor to determine which Petro-Canada Natural gas compressor fluid will meet your needs.

Health and Safety

To obtain Safety Data Sheets (SDS), contact one of our TechData Info Lines.



TechData Info Lines

If you are an existing customer looking to place an order, please call a Customer Order Management Representative at:

Canada (English) Phone 1-800-268-5850
(French)..... Phone 1-800-576-1686
United States Phone 1-877-730-2369
Latin America/Europe/Asia Phone +1-866-957-4444

You can also e-mail us at LubeCSR@PetroCanadaLSP.com

If you would like to become a Petro-Canada lubricants customer and require more information about specialty fluids, oils and greases that can help maximize your equipment performance, savings and productivity, please contact us at:

North America Phone 1-866-335-3369
Europe Phone +44 (0) 121-781-7264
Germany Phone 0800-589-4751
China Phone +86 (21) 6362-0066

Visit us on the web at lubricants.petro-canada.com