

TECH DATA

NG COMPOIL AW 150, 220

RECIPROCATING HYDROCARBON GAS COMPRESSOR FLUID

INTRODUCTION

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

With excellent water separation, corrosion protection 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
- Resolves downstream process foaming issues that can be experienced with detergent type formulations.
- Protects equipment from corrosion
- Resists the corrosive effects of water and sour gas components

APPLICATIONS

NG CompOil AW 150 / 220 compressor fluids can be used to lubricate the frame and cylinders / packings for reciprocating compressors in hydrocarbon production and processing applications.

NG CompOil AW 150 / 220 are specifically recommended for:

- Compression of Pipeline quality natural gas
- Hydrocarbon gas with water and heavy hydrocarbons including conditions where Methane <90%, propane >8% and specific gravity >0.7 g/mL
- Cylinder/packing lubricant where strong water separation, and no detergent are preferred
- In sweet and 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.

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.

Learn more about us: petrocanadalubricants.com

Contact us: lubecsr@hfsinclair.com

Committed to the disciplined operation of our business.



Petro-Canada Lubricants Inc.

2310 Lakeshore Road W. Mississauga, Ontario, Canada L5J 1K2

petrocanadalubricants.com

Trademarks are owned or used under license.
IM-8112E (2024.09)