

VULTREX™ MPG, G-123 & G-124 PREMIUM HEAVY DUTY GREASE



Introduction

Petro-Canada's Vultrex™ MPG, G-123 and G-124 family of greases are premium performance, high dropping point, extreme pressure (EP), aluminum complex greases designed for a wide variety of heavy duty applications. The Vultrex MPG, G-123 and G-124 grease family consists of five different products formulated to meet a wide range of temperature conditions, load carrying capabilities and pumpability requirements. The aluminum complex thickener provides excellent resistance to water wash-off, while high oil viscosities and performance additives provide excellent film strength and metal protection. The Vultrex MPG, G-123 and G-124 family of greases are recommended for heavy duty applications, such as:

- Construction equipment
- Farm machinery
- Mining and mineral processing
- Industrial machinery
- Forestry operations

Features and Benefits

- **Heavy duty wear protection**
 - Maintains a constant lubricating film under high load conditions which prevents wear
 - Protects against severe shock loads
- **Year-round performance**
 - Oil viscosities and thickener adjusted for different temperature ranges from the hottest summer to the coldest winter conditions
- **Excellent high temperature stability**
 - Keeps its structure and consistency without hardening like some other greases
 - Can be heated and cooled without causing separation of oil and thickener

- **Outstanding adhesive properties**

- Withstands being squeezed out from between metal surfaces and resists throw off

Applications

The Vultrex MPG, G-123 and G-124 family of aluminum complex greases are characterized by their outstanding ability to withstand high pressures, shock loads and water wash-off as well as operate over a wide range of temperatures. Consequently, Vultrex MPG, G-123 and G-124 greases are recommended for use in a wide range of applications that include mining, mineral processing, forestry, steel mills, construction and farming operations. Vultrex G-123 and G-124 greases are designed specially for lubricating truck components and other heavy duty automotive equipment.

Vultrex MPG Synthetic Arctic, EP1 and EP2 meet the P & H 472 specification for multipurpose greases, and are on the Certified Lubricant Listing for the Bucyrus International SD4711 multi-purpose grease specification.

Vultrex MPG EP 2

This grease is recommended for lubricating heavily loaded plain or anti-friction bearings as well as sliding surfaces moving at low to moderate speeds.

Specific applications include:

- Off-highway vehicle chassis and wheel bearings
- Ball mill conveyor and crusher bearings
- Low-medium speed gear couplings
- Steel mills, especially for bearings on slab casters
- Operating range is -20°C to 160°C (-4°F to 320°F)

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.



Vultrex MPG EP 1

Vultrex MPG EP 1 has the same oil viscosity and film strength as the Vultrex MPG EP 2 grease and so is used in the same applications listed above. It has improved pumpability and is better suited for use with centralized greasing systems with an operating range of -25°C to 160°C (-13°F to 320°F).

Vultrex MPG Synthetic Arctic

Vultrex MPG Synthetic Arctic is a synthetic grease designed for use in extremely cold weather on resource industry equipment such as shovels, draglines, excavators, blasthole drills, tracked equipment and other slow moving vehicles. This synthetic grease is compatible with the other grades of Vultrex MPG grease. An NLGI No. 0 consistency and a lower viscosity synthetic fluid allows the grease to be pumped down to -45°C. It is suitable for use in centralized greasing systems. Operating range is -45°C to 120°C (-49°F to 248°F).

Vultrex G-123, G-124

Vultrex G-123 (NLGI No.1) and G-124 (NLGI No.2) are red, tacky greases designed specially to lubricate heavy duty truck components such as wheel bearings, bushings, king pins, chassis points, etc. encountered in the mining, forestry and transportation industries. These applications involve vibration and shock loading which require EP properties. Operating ranges are:

- Vultrex G-123 from -25°C to 160°C (-13°F to 320°F)
- Vultrex G-124 from -20°C to 160°C (-4°F to 320°F)

Typical Performance Data

PROPERTY	TEST METHOD	VULTREX				
		MPG EP 2	MPG EP 1	MPG Synthetic Arctic	G-123	G-124
NLGI Grade	D217	2	1	0	1	2
Colour	PCM 264	Green-Brown	Green-Brown	Brown	Red	Red
Texture	PCM 264	Buttery	Buttery	Buttery	Stringy	Stringy
Dropping Point, °C	D2265	288	275	239	271	277
Worked Penetration 60 strokes	D217 A	272	328	368	323	279
Oxidation Stability 100 hrs, psi drop	D942	6	4.5	2	4	1
Base Oil Viscosity cSt @ 40°C SUS @ 100°F	D445	403 2170	403 2170	137.5 705	220 1168	220 1168
Four Ball Weld Point, kg	D2596	250	250	400	315	315
Four Ball Wear, scar diam mm	D2266	0.5	0.5	0.6	0.5	0.5
Copper Corrosion	D4048	1a	1a	1a	1a	1a
Water Washout % @ 79°C	D1264	2	10	24	11	2.5
Normal Operating Temperature Range, °C (°F)		-20 to 160 (-4 to 320)	-25 to 160 (-13 to 320)	-45 to 120 (-49 to 248)	-25 to 160 (-13 to 320)	-20 to 160 (-4 to 320)

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

Health and Safety

To obtain Material Safety Data Sheet (MSDS), contact one of Petro-Canada's TechData Info Lines.

TechData Info Lines

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
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You can also e-mail us at lubecsr@suncor.com



To learn more about how Petro-Canada lubricants, specialty fluids, oils and greases can help maximize your equipment performance, savings and productivity, please contact us at :

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