



SEPRO™ XL PAPER MACHINE OILS

Introduction

Petro-Canada's SEPRO XL paper machine oils are premium performance circulating oils formulated to protect equipment longer and increase uptime. SEPRO XL is particularly recommended for situations where there are environmental concerns regarding the quality of discharged waste water.

Petro-Canada's unique chemistry starts with a blend of base oils which includes Petro-Canada's 99.9% ultra pure base oil made from the HT purity process. These crystal clear fluids are free of impurities that can hinder lubricant performance and negatively impact the environment. Sepro XL's unique combination of base oils and additives results in its ability to retain its "fresh oil" properties longer. SEPRO XL is non-toxic, recyclable and free of non-environmentally friendly metals.

Features and Benefits

Longer Life

- **SEPRO XL resists oil degradation**
 - Protects equipment longer for increased uptime and reliability
 - Extends intervals between change-outs for maximized oil life

Environmentally Sensitive

- Tested as non-toxic to water-inhabiting species (tested on trout and daphnia protocols)
- Recyclable
- Free of metals harmful to the environment
- Dioxin formation and environmental damage is reduced due to low levels of dioxin precursors

Other features include:

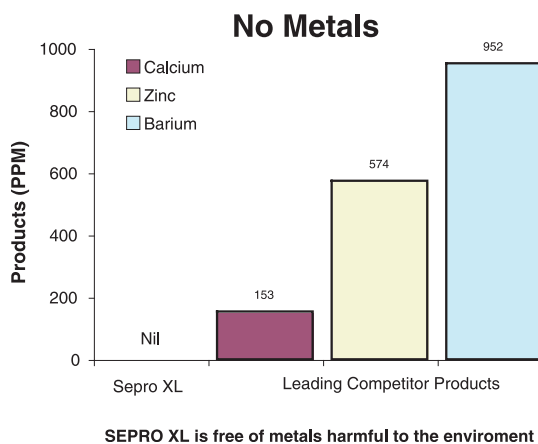
- Excellent water separation provides protection from rust, corrosion and wear
- Excellent thermal stability helps resist oil breakdown
- Anti-wear protection reduces wear on heavily loaded components
- Excellent detergent dispersant properties
- Low tendency to foam
- Good air release
- Filters readily at the 5 micron level

Applications

Petro-Canada's Sepro XL paper machine oils are designed for use in the wet and dry ends of paper machine circulating systems. These oils are the lubricants of choice where there are environmental concerns regarding plant waste water discharge quality.

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	SEPRO XL	
		150	220
Density kg/L @ 15°C	ASTM D4052	0.884	0.891
Colour	ASTM D1500	1.5	2.0
Flash Point, °C / °F	ASTM D92	267 / 513	269 / 516
Viscosity cSt @ 40°C / SUS @ 100°F cSt @ 100°C / SUS @ 210°F	ASTM D445	151 / 794 15.2 / 81.0	221 / 1167 19.2 / 97.4
Viscosity Index	ASTM D2270	101	97
Pour Point, °C / °F	ASTM D5950	-21 / -6	-21 / -6
Total Acid Number (TAN)	ASTM D664	0.42	0.38
Total Base Number (TBN)	ASTM D2896	0.80	0.52
Copper Corrosion	ASTM D130	1b	1b
Rust Test, Procedure A & B, 24 hours	ASTM D665	Pass	Pass
Oxidation Stability, Time to TAN of 2.0 hours	ASTM D943	2000+	1500+
Four-Ball Wear Test, scar diameter, mm 40 kg, 1 hour, 75°C, 1200 rpm	ASTM D4172	0.46	0.42
Air Release @ 75°C (minutes)	ASTM D3427	< 10	< 15
FZG Load Stage	ASTM D5182	12	12+
Dibenzodioxin (DBD) Dibenzofuran (DBF), ppb	PCM 514	< 28.0	26.0
Water Separability (time), 82° C	ASTM D1401	(40-40-0) 10min	(40-39-1) 30min
Metals			
Barium (ppm)	PCM 438	0	0
Zinc (ppm)	PCM 438	0	0

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
Latin America Phone +1-416-730-2369
Europe Phone +1-416-730-2389
Asia Phone +1-416-730-2372
China Phone +86 (21) 6362-0066

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 :

North America Phone 1-866-335-3369
Europe Phone +44 (0) 121-781-7264
Germany Phone +49 (0) 201-726-2913
Latin America Phone +1-416-730-2369
Asia Phone +1-416-730-2372
China Phone +86 (21) 6362-0066
E-mail sales@suncor.com

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

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

IM-7895E (2013.12)

Petro-Canada is a Suncor Energy business
™Trademark of Suncor Energy Inc. Used under licence.

Beyond today's standards.

