

**TEST REPORT**

1.	<b>Name of substance</b>	:	COLD LAKE DILBIT BLEND (CLB)
2.	<b>General data</b>		
2.1	Composition	:	50-90% bitumen, 10-50% petroleum distillates
2.2	Proper Shipping Name	:	Petroleum Crude Oil
2.3	UN Number	:	UN 1267
2.4	Molecular formula	:	Complex mixture of hydrocarbons
2.5	Physical form	:	Liquid
2.6	Colour	:	Brown/black
2.7	Density	:	939 kg/m <sup>3</sup> at 15°C
2.8	Last Sample Date	:	September 02, 2018*
2.9	Laboratory	:	Exova
3.	<b>Flash Point Determination</b>		
3.1	Method	:	ASTM 93-08, Pensky-Martins Closed Cup (Automatic)
3.2	Result	:	<-5°C
4.	<b>Initial Boiling Point Determination</b>		
4.1	Method	:	ASTM D7169-16 Modified Test Method for Boiling Point Distribution of Samples with Residues Such as Crude Oils and Atmospheric and Vacuum Residues by High Temperature Gas Chromatography
4.2	Result	:	≤35°C
5.	<b>Class Determination</b>		
5.1	Method	:	<i>TDG Regulations Part 2, 2.18 Class 3 Flammable Liquids</i>
5.2	Criteria	:	<i>(1)(a)</i> Flash point ≤ 60°C in closed-cup test
5.3	Result	:	Class 3 substance
6.	<b>Packing Group Determination</b>		
6.1	Method	:	<i>TDG Regulations Part 2, 2.19 Packing Groups</i>
6.2	Criteria	:	<i>(1)(a)</i> Initial boiling point ≤35°C and any flash point
6.3	Result	:	Packing Group I
7.	<b>Conclusion</b>	:	UN1267, Petroleum Crude Oil, Class 3, PG I
7.1	Date	:	October 12, 2018

\*The latest laboratory results available on request.