

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Machine Id Or1984 Component Front Left Planetary Fluid PETBO CANADA DEXBON G

# PETRO CANADA DEXRON GEAR OIL 75W-90 (8 LTR)

## RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

### **WEAR**

All component wear rates are normal.

## CONTAMINATION

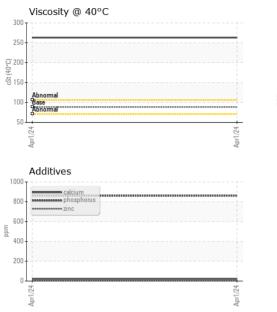
There is no indication of any contamination in the oil.

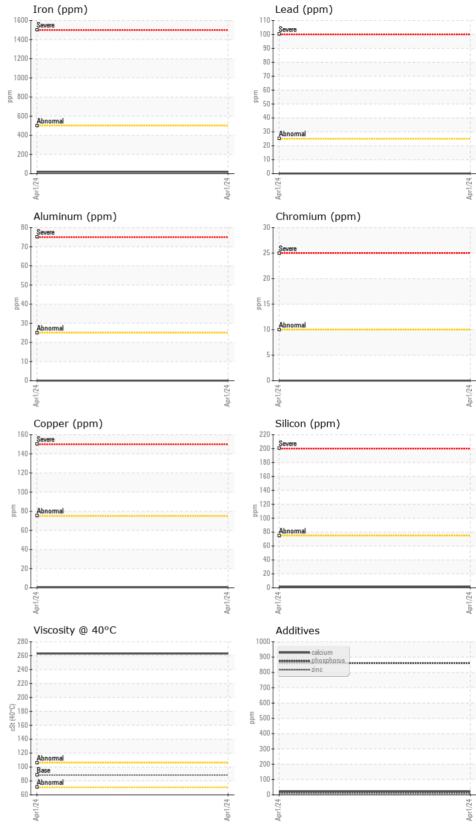
## FLUID CONDITION

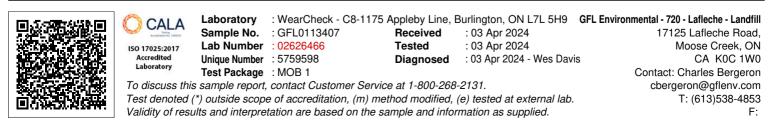
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

TestUOMMethodLimit/AnCurrentHistory1History2Sample NumberClient InfoOf Apr 2024Sample DateClient InfoOf Apr 2024Machine AgehrsClient InfoInf666Oil AgehrsClient InfoInf666Filter AgehrsClient InfoNtAOil ChangedClient InfoNtAFilter ChangedQClient InfoNtASample StatusClient InfoNtAIronppmASTMD5185(m)>50017NickelppmASTMD5185(m)>100NickelppmASTMD5185(m)>100SilverppmASTMD5185(m)>100AluminumppmASTMD5185(m)>100VanadiumppmASTMD5185(m)>100YandoumppmASTMD5185(m)>100YandoumppmASTMD5185(m)>100YandoumppmASTMD5185(m)>20<1YandoumppmASTMD5185(m)>20<1YandoumppmASTMD5185(m)>20<1							
Sample Date  Client Info  OI Apr 2024     Machine Age  hrs  Client Info  11666     Dil Age  hrs  Client Info  11666     Filter Age  hrs  Client Info  11666     Filter Age  hrs  Client Info  Not Changd     GOI Changed  Client Info  Not Changd      Filter Changed  Client Info  Not Changd      Sample Status  Viran       Iron  ppm  ASTMD5185(m) >10  0      Nickel  ppm  ASTMD5185(m) >10  0      Silver  ppm  ASTMD5185(m) >25  0      Aluminum  ppm  ASTMD5185(m) >75  <1      Vanadium  ppm  ASTMD5185(m) >75  <2      Yatlow Metal  scalar  Visual*	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age  hrs  Client Info  11666      Oil Age  hrs  Client Info  11666      Filter Age  hrs  Client Info  Not Change      Oil Changed  Client Info  NA       Filter Changed  Client Info  NA       Sample Status  Client Info  NA       Iron  ppm  ASTM D5185(m)  >500  17      Nickel  ppm  ASTM D5185(m)  >10  0      Silver  ppm  ASTM D5185(m)  >25  0      Aluminum  ppm  ASTM D5185(m)  >25  1      Yanadium  ppm  ASTM D5185(m)  >75  <1      Yanadium  ppm  ASTM D5185(m)  >75  1 <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>GFL0113407</th> <th></th> <th></th>	Sample Number		Client Info		GFL0113407		
Oil Age  hrs  Client Info  11666      Filter Age  hrs  Client Info  Not Changad      Oil Changed  Client Info  N/A      Filter Changed  Client Info  N/A      Sample Status  NORMAL      Iron  ppm  ASTM D5185(m)  >500  17     Chromium  ppm  ASTM D5185(m)  >10  0     Nickel  ppm  ASTM D5185(m)  >10  0     Silver  ppm  ASTM D5185(m)  >25  0     Aluminum  ppm  ASTM D5185(m)  >25  0     Vanaduium  ppm  ASTM D5185(m)  >10  0     Yellow Metal  scalar  Visual*  NONE  NONE     Silicon  ppm  ASTM D5185(m)  >75  2      Yel	Sample Date		Client Info		01 Apr 2024		
Filter Age  hrs  Client Info  I1666      Oil Changed  Client Info  Not Changa      Filter Changed  Client Info  N/A      Sample Status  NORMAL      Iron  ppm  ASTM D5186(m)  >500  17     Chromium  ppm  ASTM D5186(m)  >10  0     Nickel  ppm  ASTM D5186(m)  0      Silver  ppm  ASTM D5186(m)  20  0     Aluminum  ppm  ASTM D5186(m)  >25  0     Lead  ppm  ASTM D5186(m)  >20      Vanadium  ppm  ASTM D5186(m)  >10  0     Vanadium  ppm  ASTM D5186(m)  >75  <1     Silicon  ppm  ASTM D5186(m)  >20  <1     Yellow Metal <t< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>11666</th><th></th><th></th></t<>	Machine Age	hrs	Client Info		11666		
Oil Changed  Client Info  Not Changed     Filter Changed  Client Info  NA     Sample Status  NORMAL     Iron  ppm  ASTM D5186(m)  >500  17     Chromium  ppm  ASTM D5186(m)  >10  0     Nickel  ppm  ASTM D5186(m)  >10  0     Nickel  ppm  ASTM D5186(m)  >10  0     Silver  ppm  ASTM D5186(m)  >25  0     Aluminum  ppm  ASTM D5186(m)  >25  0     Lead  ppm  ASTM D5186(m)  >25  0     Yellow Metal  scalar  Visual*  NONE  NONE     Yellow Metal  scalar  Visual*  NONE  NONE     Silicon  ppm  ASTM D5186(m)  >75  2      Solicon  ppm  ASTM D5186(m)	Oil Age	hrs	Client Info		11666		
Filter Changed  Client Info  N/A      Sample Status  NORMAL      Iron  ppm  ASTM D5185(m)  >500  17     Chromium  ppm  ASTM D5185(m)  >10  0     Nickel  ppm  ASTM D5185(m)  0  0     Nickel  ppm  ASTM D5185(m)  0  0     Silver  ppm  ASTM D5185(m)  >25  0     Aluminum  ppm  ASTM D5185(m)  >25  0     Lead  ppm  ASTM D5185(m)  >25  0     Vanadium  ppm  ASTM D5185(m)  >20  -1     Vanadium  ppm  ASTM D5185(m)  >75  2	Filter Age	hrs	Client Info		11666		
Sample Status  NORMAL      Iron  ppm  ASTM D5185(m)  >500  17     Chromium  ppm  ASTM D5185(m)  >10  0     Nickel  ppm  ASTM D5185(m)  >10  0     Nickel  ppm  ASTM D5185(m)  0  0     Silver  ppm  ASTM D5185(m)  25  0     Aluminum  ppm  ASTM D5185(m)  >25  0     Lead  ppm  ASTM D5185(m)  >25  0	Oil Changed		Client Info		Not Changd		
Iron  ppm  ASTM DS185(m)  >500  17     Chromium  ppm  ASTM DS185(m)  >10  0     Nickel  ppm  ASTM DS185(m)  >10  0     Titanium  ppm  ASTM DS185(m)  0      Silver  ppm  ASTM DS185(m)  25  0     Aluminum  ppm  ASTM DS185(m)  >25  0     Lead  ppm  ASTM DS185(m)  >25  0     Copper  ppm  ASTM DS185(m)  >75  <1     Yanadium  ppm  ASTM DS185(m)  >75  <1     Yanadium  ppm  ASTM DS185(m)  >75  <1     Yanadium  ppm  ASTM DS185(m)  >75  <2      Yanadium  ppm  ASTM DS185(m)  >20  <1      Yanadium  ppm  ASTM DS185(m) <td< th=""><th>Filter Changed</th><th></th><th>Client Info</th><th></th><th>N/A</th><th></th><th></th></td<>	Filter Changed		Client Info		N/A		
Chromium  ppm  ASTM D5185(m)  >10  0     Nickel  ppm  ASTM D5185(m)  >10  0     Titanium  ppm  ASTM D5185(m)  0      Silver  ppm  ASTM D5185(m)  0      Aluminum  ppm  ASTM D5185(m)  >25  0     Lead  ppm  ASTM D5185(m)  >25  0     Copper  ppm  ASTM D5185(m)  >75  <1     Vanadium  ppm  ASTM D5185(m)  >70  0     Vanadium  ppm  ASTM D5185(m)  >70  0     Vanadium  ppm  ASTM D5185(m)  >72  2     Yellow Metal  scalar  Visual*  NONE  NONE     Silicon  ppm  ASTM D5185(m)  >20  <1     Sudar/ Dirt  scalar  Visual*  NONE  NONE	Sample Status				NORMAL		
Chromium  ppm  ASTM D5185(m)  >10  0     Nickel  ppm  ASTM D5185(m)  >10  0     Titanium  ppm  ASTM D5185(m)  0      Silver  ppm  ASTM D5185(m)  0      Aluminum  ppm  ASTM D5185(m)  >25  0     Lead  ppm  ASTM D5185(m)  >25  0     Copper  ppm  ASTM D5185(m)  >75  <1     Vanadium  ppm  ASTM D5185(m)  >70  0     Vanadium  ppm  ASTM D5185(m)  >70  0     Vanadium  ppm  ASTM D5185(m)  >72  2     Yellow Metal  scalar  Visual*  NONE  NONE     Silicon  ppm  ASTM D5185(m)  >20  <1     Sudar/ Dirt  scalar  Visual*  NONE  NONE				E00	47		
Nickel  ppm  ASTM D5185(m)  >10  0     Titanium  ppm  ASTM D5185(m)  0      Silver  ppm  ASTM D5185(m)  >255  0      Lead  ppm  ASTM D5185(m)  >255  0      Copper  ppm  ASTM D5185(m)  >75  <1      Tin  ppm  ASTM D5185(m)  >75  <1      Vanadium  ppm  ASTM D5185(m)  >70  0      Vanadium  ppm  ASTM D5185(m)  >75  <1      Vanadium  ppm  ASTM D5185(m)  >75       Yellow Metal  scalar  Visual*  NONE  NONE      Silicon  ppm  ASTM D5185(m)  >20      Sodium  ppm  ASTM D5185(m)  >20 <th>-</th> <th></th> <th>( )</th> <th></th> <th></th> <th></th> <th></th>	-		( )				
Titanium  ppm  ASTM D5185(m)  O      Silver  ppm  ASTM D5185(m)  O      Aluminum  ppm  ASTM D5185(m)  >25  O     Lead  ppm  ASTM D5185(m)  >25  O     Copper  ppm  ASTM D5185(m)  >75  <1     Vanadium  ppm  ASTM D5185(m)  >10  O     Vanadium  ppm  ASTM D5185(m)  >20  <1     Yellow Metal  scalar  Visual*  NONE      Silicon  ppm  ASTM D5185(m)  >20  <1      Silit  scalar  Visual*  NONE <t< th=""><th></th><th></th><th>. ,</th><th></th><th></th><th></th><th></th></t<>			. ,				
Silver  ppm  ASTM D5185(m)  0     Aluminum  ppm  ASTM D5185(m)  >25  0     Lead  ppm  ASTM D5185(m)  >25  0     Copper  ppm  ASTM D5185(m)  >75  <1     Tin  ppm  ASTM D5185(m)  >10  0     Vanadium  ppm  ASTM D5185(m)  >10  0     White Metal  scalar  Visual*  NONE  NONE     Yellow Metal  scalar  Visual*  NONE  NONE      Silicon  ppm  ASTM D5185(m)  >20  <1      Water  WC Method  >0.2  NEG       Silit  scalar  Visual*  NONE  NONE      Sand/Dirt  scalar  Visual*  NORML  NORML      Appearance  s			( )	>10	-		
Aluminum  ppm  ASTM D5185(m)  >25  0     Lead  ppm  ASTM D5185(m)  >25  0     Copper  ppm  ASTM D5185(m)  >75  <1     Tin  ppm  ASTM D5185(m)  >10  0     Vanadium  ppm  ASTM D5185(m)  >10  0     White Metal  scalar  Visual*  NONE  NONE     Yellow Metal  scalar  Visual*  NONE  NONE     Silicon  ppm  ASTM D5185(m)  >75  2      Yellow Metal  scalar  Visual*  NONE  NONE      Silicon  ppm  ASTM D5185(m)  >2  <1      Silicon  scalar  Visual*  NONE  NONE      Sodium  scalar  Visual*  NORML  NORML      Bo			. ,		-		
Lead  ppm  ASTM D5185(m)  >25  0      Copper  ppm  ASTM D5185(m)  >75  <1      Tin  ppm  ASTM D5185(m)  >10  0      Vanadium  ppm  ASTM D5185(m)  >10  0      White Metal  scalar  Visual*  NONE  NONE      Yellow Metal  scalar  Visual*  NONE  NONE      Silicon  ppm  ASTM D5185(m)  >75  2      Water  WC Method  >0.2  NEG      Sult  scalar  Visual*  NONE  NONE      Debris  scalar  Visual*  NOR  NORML      Appearance  scalar  Visual*  NOR  NORML      Sodium  ppm  ASTM D5185			( )	05	-		
Copper  ppm  ASTM D5185(m)  >75  <1			. ,		-		
Tin  ppm  ASTM D5185(m)  >10  0     Vanadium  ppm  ASTM D5185(m)  NONE  0     White Metal  scalar  Visual*  NONE  NONE     Yellow Metal  scalar  Visual*  NONE  NONE      Silicon  ppm  ASTM D5185(m)  >75  2      Potassium  ppm  ASTM D5185(m)  >75  2      Water  WC Method  >0.2  NEG      Sand/Dirt  scalar  Visual*  NONE  NONE      Appearance  scalar  Visual*  NORM  NORML      Sodium  ppm  ASTM D5185(m)  0.2  NEG      Sodium  ppm  ASTM D5185(m)  0  0      Boron  ppm  ASTM D5185(m)  0  0  <					-		
Vanadium  ppm  ASTM D5185(m)  0     White Metal  scalar  Visual*  NONE  NONE     Yellow Metal  scalar  Visual*  NONE  NONE     Silicon  ppm  ASTM D5185(m)  >75  2      Silicon  ppm  ASTM D5185(m)  >20  <1      Water  WC Method  >0.2  NEG      Silt  scalar  Visual*  NONE  NONE     Sand/Dirt  scalar  Visual*  NONE  NOREL     Appearance  scalar  Visual*  NORML  NORML     Odor  scalar  Visual*  NORML  NORML      Sodium  ppm  ASTM D5185(m)  60  208      Boron  ppm  ASTM D5185(m)  0  0     Barium <td< th=""><th></th><th>ppm</th><th>( /</th><th></th><th></th><th></th><th></th></td<>		ppm	( /				
White Metal  scalar  Visual*  NONE  NONE     Yellow Metal  scalar  Visual*  NONE  NONE      Silicon  ppm  ASTM D5185(m)  >75  2      Potassium  ppm  ASTM D5185(m)  >20  <1      Water  WC Method  >0.2  NEG      Silt  scalar  Visual*  NONE  NONE      Debris  scalar  Visual*  NONE  NONE      Appearance  scalar  Visual*  NORM  NORML      Odor  scalar  Visual*  NORM  NORML      Sodium  ppm  ASTM D5185(m)  >0.2  NEG      Boron  ppm  ASTM D5185(m)  60  208      Molybdenum  ppm  ASTM D5185(m		ppm	( )	>10	-		
Yellow MetalscalarVisual*NONENONESiliconppmASTM D5185(m)>752PotassiumppmASTM D5185(m)>20<1WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONEVLITEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORLNORMLSodiumppmASTM D5185(m)<01BoronppmASTM D5185(m)00MolybdenumppmASTM D5185(m)00ManganeseppmASTM D5185(m)021MagnesiumppmASTM D5185(m)2010ZincppmASTM D5185(m)2010SulfurppmASTM D5185(m)2010			( /		-		
Silicon  ppm  ASTM D5185(m)  >75  2     Potassium  ppm  ASTM D5185(m)  >20  <1		scalar			-		
PotassiumppmASTM D5185(m)>20<1	Yellow Metal	scalar	Visual*	NONE	NONE		
Potassium  ppm  ASTM D5185(m)  >20  <1	Silicon	maa	ASTM D5185(m)	>75	2		
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONEVLITEAppearancescalarVisual*NORLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)60208BoronppmASTM D5185(m)00MalganeseppmASTM D5185(m)00MagnesiumppmASTM D5185(m)0PhosphorusppmASTM D5185(m)021ZincppmASTM D5185(m)2010SulfurppmASTM D5185(m)2010	Potassium		ASTM D5185(m)	>20	<1		
DebrisscalarVisual*NONENONESand/DirtscalarVisual*NONEVLITEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLDdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)60208BoronppmASTM D5185(m)00MalganeseppmASTM D5185(m)00MagnesiumppmASTM D5185(m)0MagnesiumppmASTM D5185(m)0PhosphorusppmASTM D5185(m)021ZincppmASTM D5185(m)2010SulfurppmASTM D5185(m)2010	Water		WC Method	>0.2	NEG		
Sand/DirtscalarVisual*NONEVLITEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)60208BoronppmASTM D5185(m)00BariumppmASTM D5185(m)00MolybdenumppmASTM D5185(m)00MagnesiumppmASTM D5185(m)0<1MagnesiumppmASTM D5185(m)021PhosphorusppmASTM D5185(m)1300861ZincppmASTM D5185(m)2010SulfurppmASTM D5185(m)2410013891	Silt	scalar	Visual*	NONE	NONE		
AppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)<<1BoronppmASTM D5185(m)60208BariumppmASTM D5185(m)00MolybdenumppmASTM D5185(m)00ManganeseppmASTM D5185(m)0<MagnesiumppmASTM D5185(m)0<1PhosphorusppmASTM D5185(m)021ZincppmASTM D5185(m)2010SulfurppmASTM D5185(m)2013891	Debris	scalar	Visual*	NONE	NONE		
OdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)<<1BoronppmASTM D5185(m)60208BariumppmASTM D5185(m)00MolybdenumppmASTM D5185(m)00ManganeseppmASTM D5185(m)0<MagnesiumppmASTM D5185(m)0<1PhosphorusppmASTM D5185(m)021ZincppmASTM D5185(m)2010SulfurppmASTM D5185(m)2010	Sand/Dirt	scalar	Visual*	NONE	VLITE		
OdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)<<1BoronppmASTM D5185(m)60208BariumppmASTM D5185(m)00MolybdenumppmASTM D5185(m)00ManganeseppmASTM D5185(m)0<1MagnesiumppmASTM D5185(m)0<1PhosphorusppmASTM D5185(m)2010ZincppmASTM D5185(m)2010SulfurppmASTM D5185(m)2410013891	Appearance	scalar	Visual*	NORML	NORML		
Sodium  ppm  ASTM D5185(m)  <1		scalar	Visual*	NORML	NORML		
Boron  ppm  ASTM D5185(m)  60  208     Barium  ppm  ASTM D5185(m)  0  0     Molybdenum  ppm  ASTM D5185(m)  0  0     Manganese  ppm  ASTM D5185(m)  0      Magnesium  ppm  ASTM D5185(m)  0      Calcium  ppm  ASTM D5185(m)  0  <1      Phosphorus  ppm  ASTM D5185(m)  0  21      Zinc  ppm  ASTM D5185(m)  20  10      Sulfur  ppm  ASTM D5185(m)  24100  13891	Emulsified Water	scalar	Visual*	>0.2	NEG		
Boron  ppm  ASTM D5185(m)  60  208     Barium  ppm  ASTM D5185(m)  0  0     Molybdenum  ppm  ASTM D5185(m)  0  0     Manganese  ppm  ASTM D5185(m)  0      Magnesium  ppm  ASTM D5185(m)  0      Calcium  ppm  ASTM D5185(m)  0  <1      Phosphorus  ppm  ASTM D5185(m)  0  21      Zinc  ppm  ASTM D5185(m)  20  10      Sulfur  ppm  ASTM D5185(m)  24100  13891							
Barium  ppm  ASTM D5185(m)  0  0     Molybdenum  ppm  ASTM D5185(m)  Image: Comparing the state of the	Sodium	ppm	ASTM D5185(m)		<1		
Molybdenum  ppm  ASTM D5185(m)  0     Manganese  ppm  ASTM D5185(m)  0      Magnesium  ppm  ASTM D5185(m)  0      Magnesium  ppm  ASTM D5185(m)  0  <1      Calcium  ppm  ASTM D5185(m)  0  21      Phosphorus  ppm  ASTM D5185(m)  1300  861      Zinc  ppm  ASTM D5185(m)  20  10      Sulfur  ppm  ASTM D5185(m)  24100  13891	Boron	ppm	ASTM D5185(m)	60	208		
Manganese  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0  <1	Barium	ppm	ASTM D5185(m)	0	0		
Magnesium  ppm  ASTM D5185(m)  0  <1	Molybdenum	ppm	( )		0		
Calcium  ppm  ASTM D5185(m)  0  21     Phosphorus  ppm  ASTM D5185(m)  1300  861      Zinc  ppm  ASTM D5185(m)  20  10      Sulfur  ppm  ASTM D5185(m)  24100  13891	Manganese	ppm	ASTM D5185(m)		0		
Phosphorus  ppm  ASTM D5185(m)  1300  861      Zinc  ppm  ASTM D5185(m)  20  10      Sulfur  ppm  ASTM D5185(m)  24100  13891	Magnesium	ppm	ASTM D5185(m)	0	<1		
Zinc  ppm  ASTM D5185(m)  20  10     Sulfur  ppm  ASTM D5185(m)  24100  13891	Calcium	ppm	ASTM D5185(m)	0	21		
Sulfur  ppm  ASTM D5185(m)  24100  13891	Phosphorus	ppm	ASTM D5185(m)	1300	861		
	Zinc	ppm	ASTM D5185(m)	20	10		
Visc @ 40°C cSt ASTM D7279(m) 88.50 263	Sulfur	ppm	ASTM D5185(m)	24100	13891		
	Visc @ 40°C	cSt	ASTM D7279(m)	88.50	263		

Submitted By: Charles Bergeron







Submitted By: Charles Bergeron Page 2 of 2