

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL

#### Machine Id 0197 Component Gasoline Engine Fluid SAE 0W20 (--- LTR)

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.

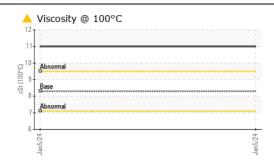
.....

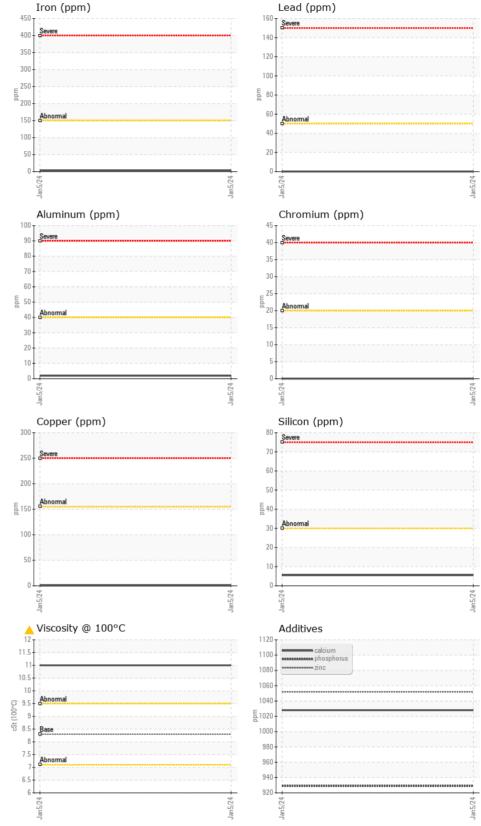
### FLUID CONDITION

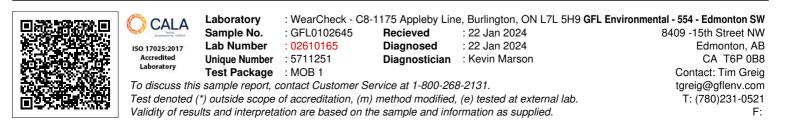
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

TestUOMMethodLimi/AnCurrentHistory1History2Sample NumberClient InfoGFL0102845Machine AgehrsClient Info95 Jan 2024Machine AgehrsClient Info0Pilter AgehrsClient Info0Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusABNORMALIronppmASTMD51850>100NickelppmASTMD51850>200NickelppmASTMD51850>200AluminumppmASTMD51850>200AluminumppmASTMD51850>200VanadiumppmASTMD51850>5000VanadiumppmASTMD51850>100VanadiumppmASTMD51850>200SoliconppmASTMD51850>200VanadiumppmASTMD51850>200SoliconppmASTMD51850>200SoliconppmASTMD51850>200NameppmASTMD51850>2010.1SoliconppmASTMD51850>							
Sample DateClient Info55 Jan 2024Machine AgehrsClient Info417018Oil AgehrsClient Info0Filter AgehrsClient InfoChangedOil ChangedClient InfoChangedFilter ChangedClient InfoChangedFilter ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusStatusASTMD51850>154IronppmASTMD51850>5<1NickelppmASTMD51850>20AluminumppmASTMD51850>20AluminumppmASTMD51850>20VanadiumppmASTMD51850>100VanadiumppmASTMD51850>100VanadiumppmASTMD51850>202SuliconppmASTMD51850>202FuelWC Method>.0<SuliconppmASTMD51850>2010.1SuliconppmASTMD51850>2010.1SuliconppmASTMD51850>2010.1SuliconppmASTMD51850>2010.1Suliconbas/mASTMD5	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info417018Oil AgehrsClient Info0Filter AgehrsClient Info0Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoASTM D5185(m)>14Sample StatusStiM D5185(m)>504IronppmASTM D5185(m)>50<1NickelppmASTM D5185(m)>200NickelppmASTM D5185(m)>500AluminumppmASTM D5185(m)>500AuminumppmASTM D5185(m)>500VanadiumppmASTM D5185(m)>500VanadiumppmASTM D5185(m)>101VanadiumppmASTM D5185(m)>202SuliconppmASTM D5185(m)>202VanadiumppmASTM D5185(m)>202SuliconppmASTM D5185(m)>202SuliconppmASTM D5185(m)2NEGSuliconppmASTM D5185(m)2<	Sample Number		Client Info		GFL0102645		
Oil Age Filter AgehrsClient Info0Filter AgehrsClient InfoChangedOil ChangedClient InfoChangedFilter ChangedClient InfoMBNORMALSample StatusClient InfoASTMOSIS(m) >1504IronppmASTMOSIS(m) >1504ChromiumppmASTMOSIS(m) >200NickelppmASTMOSIS(m) >200SilverppmASTMOSIS(m) >200AuminumppmASTMOSIS(m) >200AuminumppmASTMOSIS(m) >100VanadiumppmASTMOSIS(m) >100SiliconppmASTMOSIS(m) >202FuelWC Method>0SiliconppmASTMOSIS(m) >202SulfacionppmASTMOSIS(m) >202SulfacionppmASTMOSIS(m) >2010.1SulfacionppmASTMOSIS(m) >2010.1SulfacionppmASTMOSIS(m) >2010.1SulfacionAbs/tmASTMOSIS(m) >2010.1SulfacionAbs/tmASTMOSIS(m) >2010.1 <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>05 Jan 2024</th> <th></th> <th></th>	Sample Date		Client Info		05 Jan 2024		
Filter Age OINoClient InfoOOil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoASNORMALIronppmASTM D5185(m) >1504NickelppmASTM D5185(m) >200NickelppmASTM D5185(m) >50<1AluminumppmASTM D5185(m) >500AluminumppmASTM D5185(m) >500CopperppmASTM D5185(m) >500VanadiumppmASTM D5185(m) >500SiliconppmASTM D5185(m) >500VanadiumppmASTM D5185(m) >306SiliconppmASTM D5185(m) >302SulfacionppmASTM D5185(m) >3010.1WaterWC Method>.0Soot %%ASTM D5185(m) >3023.8SolfuinAbs/tmASTM D5185(m) >40.0SolfuinAbs/tmASTM D5185(m) >40.2NEGSolfuinAbs/tmASTM D5185(m) >40.0MagenesiumppmASTM D5185(m) <0-	Machine Age	hrs	Client Info		417018		
Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusABNORMALIronppmASTMD5185(m) >1504ChromiumppmASTMD5185(m) >200NickelppmASTMD5185(m) >5<1TitaniumppmASTMD5185(m) >200SilverppmASTMD5185(m) >200AluminumppmASTMD5185(m) >150<1QopperppmASTMD5185(m) >150<1VanadiumppmASTMD5185(m) >100SiliconppmASTMD5185(m) >100SulfacionppmASTMD5185(m) >202WaterwC Method>-2NEGSodiumppmASTMD5185(m) >202SodiumppmASTMD5185(m) >202SodiumppmASTMD5185(m) >202SodiumppmASTMD5185(m) >202SodiumppmASTMD5185(m) >4002SodiumppmASTMD5185(m) >4002SodiumppmASTMD5185(m) >4002BoronppmASTM	Oil Age	hrs	Client Info		0		
Filter Changed  Client Info  Changed     Sample Status  ABNORMAL      Iron  ppm  ASTMD5185(m) >150  4     Chromium  ppm  ASTMD5185(m) >20  0     Nickel  ppm  ASTMD5185(m) >5  <1     Titanium  ppm  ASTMD5185(m) >5  <1     Aluminum  ppm  ASTMD5185(m) >20  0     Auminum  ppm  ASTMD5185(m) >20  0     Lead  ppm  ASTMD5185(m) >50  0     Copper  ppm  ASTMD5185(m) >10  0     Vanadium  ppm  ASTMD5185(m) >20  2     Silicon  ppm  ASTMD5185(m) >20  2     Vanadium  ppm  ASTMD5185(m) >20  2     Vanadium  ppm  ASTMD5185(m) >20  2     Silicon  ppm  ASTMD5185(m) >20  2	Filter Age	hrs	Client Info		0		
Sample Status  ABNORMAL     Iron  ppm  ASTM D5185(m) >150  4     Chromium  ppm  ASTM D5185(m) >20  0     Nickel  ppm  ASTM D5185(m) >50  <1     Nickel  ppm  ASTM D5185(m) >50  <1     Titanium  ppm  ASTM D5185(m) >20  0     Aluminum  ppm  ASTM D5185(m) >20  0     Aluminum  ppm  ASTM D5185(m) >10  0     Copper  ppm  ASTM D5185(m) >10  0     Tin  ppm  ASTM D5185(m) >10  0     Vanadium  ppm  ASTM D5185(m) >10  0     Solicon  ppm  ASTM D5185(m) >10  0     Vanadium  ppm  ASTM D5185(m) >10  0     Solicon  ppm  ASTM D5185(m) >20  2     WC Method  >.0.2  NEG	Oil Changed		Client Info		Changed		
Iron  ppm  ASTM D5185(m)  >150  4     Chromium  ppm  ASTM D5185(m)  >20  0     Nickel  ppm  ASTM D5185(m)  >5  <1     Titanium  ppm  ASTM D5185(m)  >2  0     Aluminum  ppm  ASTM D5185(m)  >2  0     Aluminum  ppm  ASTM D5185(m)  >2  0     Aluminum  ppm  ASTM D5185(m)  >2  0     Lead  ppm  ASTM D5185(m)  >10  0     Copper  ppm  ASTM D5185(m)  >10  0     Vanadium  ppm  ASTM D5185(m)  >10  0     Vanadium  ppm  ASTM D5185(m)  >20  2     Vanadium  ppm  ASTM D5185(m)  >20  2     Vanadium  ppm  ASTM D5185(m)  >20  2	Filter Changed		Client Info		Changed		
Chromium  ppm  ASTM D5185(m)  >20  0     Nickel  ppm  ASTM D5185(m)  >5  <1     Titanium  ppm  ASTM D5185(m)  >2  0     Silver  ppm  ASTM D5185(m)  >2  0     Aluminum  ppm  ASTM D5185(m)  >40  2     Lead  ppm  ASTM D5185(m)  >50  0     Copper  ppm  ASTM D5185(m)  >10  0     Vanadium  ppm  ASTM D5185(m)  >10  0     Silicon  ppm  ASTM D5185(m)  >20  2     Fuel  WC Method  >4.0  <1.0      Glycol  WC Method  >0.2  NEG      Solfation  Abs/:m  ASTM D7844'  0      Nitration  Abs/:m  ASTM D7858(m)  >0.2  NEG <td< th=""><th>Sample Status</th><th></th><th></th><th></th><th>ABNORMAL</th><th></th><th></th></td<>	Sample Status				ABNORMAL		
Chromium  ppm  ASTM D5185(m)  >20  0     Nickel  ppm  ASTM D5185(m)  >5  <1     Titanium  ppm  ASTM D5185(m)  >2  0     Silver  ppm  ASTM D5185(m)  >2  0     Aluminum  ppm  ASTM D5185(m)  >40  2     Lead  ppm  ASTM D5185(m)  >50  0     Copper  ppm  ASTM D5185(m)  >10  0     Vanadium  ppm  ASTM D5185(m)  >10  0     Silicon  ppm  ASTM D5185(m)  >20  2     Fuel  WC Method  >4.0  <1.0      Glycol  WC Method  >0.2  NEG      Solfation  Abs/:m  ASTM D7844'  0      Nitration  Abs/:m  ASTM D7858(m)  >0.2  NEG <td< th=""><th></th><th></th><th></th><th>450</th><th></th><th></th><th></th></td<>				450			
NickelppmASTM D5185(m)>2<1	-		( )		-		
Titanium  ppm  ASTM D5185(m)  O     Silver  ppm  ASTM D5185(m)  >2  O     Aluminum  ppm  ASTM D5185(m)  >40  2     Aluminum  ppm  ASTM D5185(m)  >50  O     Lead  ppm  ASTM D5185(m)  >155  <1     Copper  ppm  ASTM D5185(m)  >10      Vanadium  ppm  ASTM D5185(m)  >10      Vanadium  ppm  ASTM D5185(m)  >20  2      Silicon  ppm  ASTM D5185(m)  >20  2      Water  ppm  ASTM D5185(m)  >20  2      Solt %  %  ASTM D5185(m)  >20  10.1      Solt %  %  ASTM D744*  >0      Sulfation  Abs/.mm  AS					-		
Silver  ppm  ASTM D5185(m)  >2  0     Aluminum  ppm  ASTM D5185(m)  >40  2      Lead  ppm  ASTM D5185(m)  >50  0      Copper  ppm  ASTM D5185(m)  >10  0      Tin  ppm  ASTM D5185(m)  >10  0      Vanadium  ppm  ASTM D5185(m)  >30  6      Silicon  ppm  ASTM D5185(m)  >30  6      Vanadium  ppm  ASTM D5185(m)  >30  6      Silicon  ppm  ASTM D5185(m)  >20  2      Vater  WC Method  >0  <-10			. ,	>5			
Aluminum  ppm  ASTM D5185(m)  >40  2     Lead  ppm  ASTM D5185(m)  >50  0     Copper  ppm  ASTM D5185(m)  >155  <1     Tin  ppm  ASTM D5185(m)  >10  0     Vanadium  ppm  ASTM D5185(m)  >10  0     Silicon  ppm  ASTM D5185(m)  >20  2     Fuel  WC Method  >4.0  <1.0      Water  WC Method  >4.0  <1.0      Soot %  %  ASTM D7844'  0      Soot %  %  ASTM D7624'  >20  10.1      Sulfation  Abs/.1m  ASTM D7624'  >20  10.1      Sodium  ppm  ASTM D7624'  >20  10.1      Sodium  ppm  ASTM D5185(m)			( )		-		
Lead  ppm  ASTM D5185(m)  >50  0     Copper  ppm  ASTM D5185(m)  >105  <1			. ,		-		
Copper  ppm  ASTM D5185(m)  >155  <1		ppm					
Tin  ppm  ASTM D5185(m)  >10  0     Vanadium  ppm  ASTM D5185(m)  >30  6      Silicon  ppm  ASTM D5185(m)  >30  6      Potassium  ppm  ASTM D5185(m)  >20  2      Fuel  WC Method  >4.0  <1.0		ppm	. ,		-		
Vanadium  ppm  ASTM D5185(m)  O     Silicon  ppm  ASTM D5185(m)  >30  6     Potassium  ppm  ASTM D5185(m)  >20  2     Potassium  ppm  ASTM D5185(m)  >20  2     Fuel  WC Method  >4.0  <1.0      Water  WC Method  >0.2  NEG      Glycol  WC Method  >0.2  NEG      Soot %  %  ASTM D7844*  0      Soot %  %  ASTM D7844*  20  10.1      Sulfation  Abs/.mm  ASTM D7844*  >20.2  NEG      Sulfation  Abs/.mm  ASTM D78185(m)  >0  2      Sodium  ppm  ASTM D5185(m)  >400       Boron  ppm  AST		ppm					
Silicon  ppm  ASTM D5185(m)  >30  6     Potassium  ppm  ASTM D5185(m)  >20  2     Fuel  WC Method  >4.0  <1.0      Water  Image: MC Method  >0.2  NEG      Glycol  WC Method  >0.2  NEG      Soot %  %  ASTM D7844*  Image: MC Method      Nitration  Abs/cm  ASTM D7844*  Image: MC Method      Sulfation  Abs/cm  ASTM D7844*  Image: MC Method  Image: MC Method     Sulfation  Abs/cm  ASTM D7644*  >20  Image: MC Method     Sulfation  Abs/cm  ASTM D7145*  >30  23.8      Sulfation  ppm  ASTM D5185(m)  >40  2      Sodium  ppm  ASTM D5185(m)  >40  60		ppm	( )	>10	0		
PotassiumppmASTM D5185(m)>202FuelWC Method>4.0<1.0WaterWC Method>0.2NEGGlycolWC Method>0.2NEGSoot %%ASTM D7844'0NitrationAbs/cmASTM D7624'>2010.1SulfationAbs/cmASTM D7624'>2010.1SulfationAbs/cmASTM D7624'>20NEGSulfationAbs/cmASTM D7624'>20NEGSulfationAbs/cmASTM D5185(m)>023.8BoronppmASTM D5185(m)>02BariumppmASTM D5185(m)A66MalgaeseppmASTM D5185(m)I60MagnesiumppmASTM D5185(m)I0PhosphorusppmASTM D5185(m)I0ZincppmASTM D5185(m)I1028SulfurppmASTM D5185(m)I2520.5SulfurppmASTM D5185(m)I20.5	Vanadium	ppm	ASTM D5185(m)		0		
PotassiumppmASTM D5185(m)>202FuelWC Method>4.0<1.0WaterWC Method>0.2NEGGlycolWC Method>0.2NEGSoot %%ASTM D7844'0NitrationAbs/cmASTM D7624'>2010.1SulfationAbs/cmASTM D7624'>2010.1SulfationAbs/cmASTM D7624'>20NEGSulfationAbs/cmASTM D7624'>20NEGSulfationAbs/cmASTM D5185(m)>023.8BoronppmASTM D5185(m)>02BariumppmASTM D5185(m)A66MalgaeseppmASTM D5185(m)I60MagnesiumppmASTM D5185(m)I0PhosphorusppmASTM D5185(m)I0ZincppmASTM D5185(m)I1028SulfurppmASTM D5185(m)I2520.5SulfurppmASTM D5185(m)I20.5	Silicon	ppm	ASTM D5185(m)	>30	6		
FuelWC Method>4.0<1.0			( )		-		
WaterWC Method>0.2NEGGlycolWC MethodNEGSoot %%ASTM D7844*0NitrationAbs/cmASTM D7624*>2010.1SulfationAbs/.1mmASTM D7624*>2010.1SulfationAbs/.1mmASTM D7415*>3023.8SulfationAbs/.1mmASTM D7415*>3023.8SodiumppmASTM D5185(m)>4002BoronppmASTM D5185(m)>4006BariumppmASTM D5185(m)-600MolybdenumppmASTM D5185(m)0ManganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)In028PhosphorusppmASTM D5185(m)SulfurppmASTM D5185(m)10528CalciumppmASTM D5185(m)SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)SulfurppmASTM D5185(m) <t< th=""><th></th><th>le le</th><th></th><th></th><th></th><th></th><th></th></t<>		le le					
GlycolWC MethodNEGSoot %%ASTM D7844*0NitrationAbs/cmASTM D7624*>2010.1SulfationAbs/rmASTM D7624*>2010.1SulfationAbs/rmASTM D7624*>023.8Emulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>4002BoronppmASTM D5185(m)>40066BariumppmASTM D5185(m)0MolybdenumppmASTM D5185(m)0ManganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)Into28PhosphorusppmASTM D5185(m)Into28ZincppmASTM D5185(m)Into22SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)Into22SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)Into22SulfurppmASTM D5185(m)SulfurppmASTM D5185(m)Into25IntoSul							
Soot %  %  ASTM D7844*  0     Nitration  Abs/cm  ASTM D7624*<>20  10.1      Sulfation  Abs/.1mm  ASTM D7624*<>20  10.1      Sulfation  Abs/.1mm  ASTM D7624*<>20  10.1      Sulfation  Abs/.1mm  ASTM D7415*<>30  23.8      Sulfation  Abs/.1mm  ASTM D7415*<>30  23.8      Sodium  ppm  ASTM D5185(m)  >0.2  NEG      Sodium  ppm  ASTM D5185(m)  >400  2      Boron  ppm  ASTM D5185(m)  Image: Solita in the image: Soli							
NitrationAbs/mASTM D7624*>2010.1SulfationAbs/.1mmASTM D715*>3023.8Emulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>4002BoronppmASTM D5185(m)>4002BariumppmASTM D5185(m)-66MolybdenumppmASTM D5185(m)0ManganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)1028PhosphorusppmASTM D5185(m)1028ZincppmASTM D5185(m)I929SulfurppmASTM D5185(m)-1052SulfurppmASTM D5185(m)I25.74SulfurAbs/.1mASTM D5185(m)20.5		%	ASTM D7844*		0		
Emulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)>4002BoronppmASTM D5185(m)6BariumppmASTM D5185(m)06MolybdenumppmASTM D5185(m)0ManganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)0CalciumppmASTM D5185(m)1028PhosphorusppmASTM D5185(m)1028ZincppmASTM D5185(m)1052SulfurppmASTM D5185(m)1052SulfurppmASTM D5185(m)2520.5		Abs/cm		>20	10.1		
Sodium  ppm  ASTM D5185(m)  >400  2     Boron  ppm  ASTM D5185(m)  6      Barium  ppm  ASTM D5185(m)  0      Barium  ppm  ASTM D5185(m)  0      Molybdenum  ppm  ASTM D5185(m)  0      Manganese  ppm  ASTM D5185(m)  0      Magnesium  ppm  ASTM D5185(m)  0      Calcium  ppm  ASTM D5185(m)  1028      Phosphorus  ppm  ASTM D5185(m)  1052      Sulfur  ppm  ASTM D5185(m)  1052      Sulfur  ppm  ASTM D5185(m)  1052      Sulfur  ppm  ASTM D5185(m)  250.5	Sulfation	Abs/.1mm	ASTM D7415*	>30	23.8		
Boron  ppm  ASTM D5185(m)  6     Barium  ppm  ASTM D5185(m)  0     Molybdenum  ppm  ASTM D5185(m)  0     Manganese  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0     Calcium  ppm  ASTM D5185(m)  8488     Phosphorus  ppm  ASTM D5185(m)  1028     Zinc  ppm  ASTM D5185(m)  10528     Sulfur  ppm  ASTM D5185(m)  1052     Sulfur  ppm  ASTM D5185(m)  25.74	Emulsified Water	scalar	Visual*	>0.2	NEG		
Boron  ppm  ASTM D5185(m)  6     Barium  ppm  ASTM D5185(m)  0     Molybdenum  ppm  ASTM D5185(m)  0     Manganese  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0     Calcium  ppm  ASTM D5185(m)  8488     Phosphorus  ppm  ASTM D5185(m)  1028     Zinc  ppm  ASTM D5185(m)  10528     Sulfur  ppm  ASTM D5185(m)  1052     Sulfur  ppm  ASTM D5185(m)  25.74							
Barium  ppm  ASTM D5185(m)  0     Molybdenum  ppm  ASTM D5185(m)  60     Manganese  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0     Calcium  ppm  ASTM D5185(m)  1028     Phosphorus  ppm  ASTM D5185(m)  1028     Zinc  ppm  ASTM D5185(m)  1052     Sulfur  ppm  ASTM D5185(m)  2574     Oxidation  Abs/.1mm  ASTM D5185(m)  20.5	Sodium	ppm	ASTM D5185(m)	>400	2		
Molybdenum  ppm  ASTM D5185(m)  60     Manganese  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0     Calcium  ppm  ASTM D5185(m)  1028     Phosphorus  ppm  ASTM D5185(m)  1028     Zinc  ppm  ASTM D5185(m)  1052     Sulfur  ppm  ASTM D5185(m)  1052     Oxidation  Abs/.tmm  ASTM D5185(m)  2574	Boron	ppm	ASTM D5185(m)		6		
Manganese  ppm  ASTM D5185(m)  0     Magnesium  ppm  ASTM D5185(m)  0      Magnesium  ppm  ASTM D5185(m)  0  848      Calcium  ppm  ASTM D5185(m)  1028      Phosphorus  ppm  ASTM D5185(m)  929      Zinc  ppm  ASTM D5185(m)  1052      Sulfur  ppm  ASTM D5185(m)  2574      Oxidation  Abs/.1mm  ASTM D71414  >25  20.5	Barium	ppm	ASTM D5185(m)		0		
Magnesium  ppm  ASTM D5185(m)  848     Calcium  ppm  ASTM D5185(m)  1028     Phosphorus  ppm  ASTM D5185(m)  1028     Zinc  ppm  ASTM D5185(m)  1052     Sulfur  ppm  ASTM D5185(m)  2574     Oxidation  Abs/.1mm  ASTM D7141*<>25  20.5	Molybdenum	ppm	ASTM D5185(m)		60		
Calcium  ppm  ASTM D5185(m)  1028     Phosphorus  ppm  ASTM D5185(m)  929      Zinc  ppm  ASTM D5185(m)  1052      Sulfur  ppm  ASTM D5185(m)  25574      Oxidation  Abs/.1mm  ASTM D7141*<>25  20.5	Manganese	ppm	ASTM D5185(m)		0		
Phosphorus  ppm  ASTM D5185(m)  929     Zinc  ppm  ASTM D5185(m)  1052     Sulfur  ppm  ASTM D5185(m)  2574     Oxidation  Abs/.1mm  ASTM D71414*  >25  20.5	Magnesium	ppm	ASTM D5185(m)		848		
Zinc  ppm  ASTM D5185(m)  1052     Sulfur  ppm  ASTM D5185(m)  2574     Oxidation  Abs/.1mm  ASTM D71414*  >25  20.5	Calcium	ppm	ASTM D5185(m)		1028		
Sulfur  ppm  ASTM D5185(m)  2574     Oxidation  Abs/.1mm  ASTM D7414*<>25  20.5	Phosphorus	ppm	ASTM D5185(m)		929		
Oxidation  Abs/.1mm  ASTM D7414*  >25  20.5	Zinc	ppm	ASTM D5185(m)		1052		
	Sulfur	ppm	ASTM D5185(m)		2574		
Visc @ 100°C cSt ASTM D7279(m) 8.3 ( 11.0 )		Abs/.1mm	ASTM D7414*	>25	20.5		
	Visc @ 100°C	cSt	ASTM D7279(m)	8.3	<b>11.0</b>		

Contact/Location: Tim Greig - GFL554







Contact/Location: Tim Greig - GFL554 Page 2 of 2