

### Machine Id JOHN DEERE 245G 1FF245GXCNF802665 Component Left Final Drive

# GEAR OIL SAE 80W90 (--- GAL)

R	EC	OM	IME	ND/	ON

Resample at the next service interval to monitor. ( Customer Sample Comment: Left final drive )

## WEAR

All component wear rates are normal.

### **CONTAMINATION**

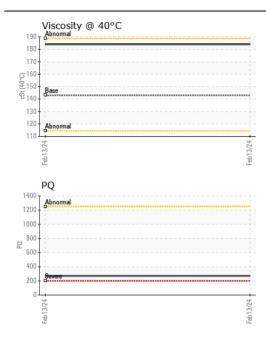
There is no indication of any contamination in the fluid.

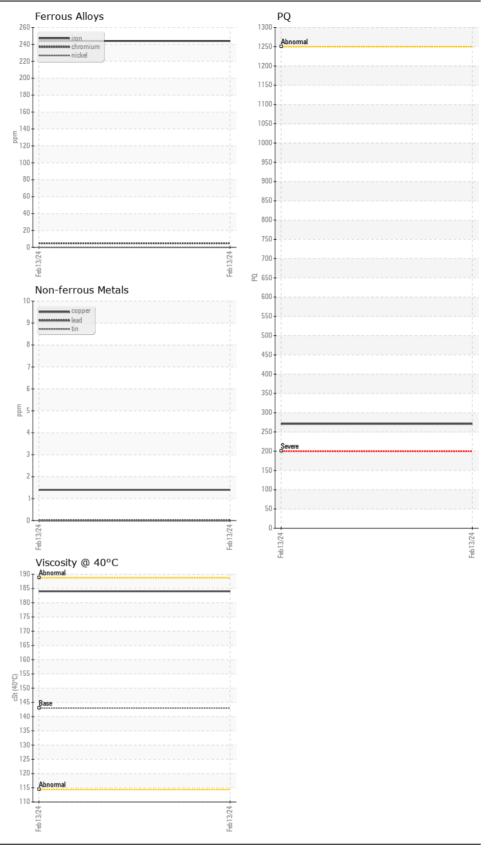
## **FLUID CONDITION**

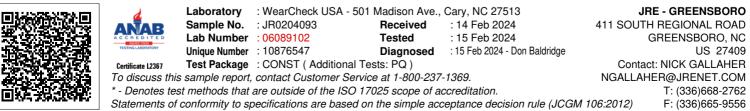
The condition of the fluid is acceptable for the time in service.

TestUOMMethodLimi/kbCurrentHistory1History2Sample NumberClient InfoISJR0204093Sample DateClient InfoIS Feb 2024Machine AgehrsClient InfoG41Oil AgehrsClient InfoIS641Filter AgehrsClient InfoISNot ChangOil ChangedClient InfoISNACFilter AgeMsClient InfoISNACSample StatusClient InfoISNACFilter ChangedASTM D1848>1250271Filter ChangedpmASTM D5185S750244FormiumppmASTM D5185>100NickelppmASTM D5185>100SilverppmASTM D5185>401AluminumppmASTM D5185>401SilconppmASTM D5185>100VanduffppmASTM D5185>100SilconppmASTM D5185>100SilconppmASTM D5185>7524SilconppmASTM D5185>75AST<							
Sample DateClient InfoI3 Feb 2024Machine AgehrsClient Info641Oil AgehrsClient Info0Filter AgehrsClient InfoNot ChangedOil ChangedClient InfoNot ChangedFilter ChangedClient InfoNASample StatusClient InfoNAPQASTM D8184>1250271PGASTM D8185>95NickelppmASTM D5185>95NickelppmASTM D5185>95SilverppmASTM D5185>402LeadppmASTM D5185>401CopperppmASTM D5185>401VanadiumppmASTM D5185>401VanadiumppmASTM D5185>401VanadiumppmASTM D5185>401VanadiumppmASTM D5185>401VanadiumppmASTM D5185>501SiliconppmASTM D5185>7524SiliconppmASTM D5185>75<	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil AgehrsClient Info641Oil AgehrsClient Info0Filter AgehrsClient InfoNo ChangdOil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusNORMALPQASTM D8184>1250271IronppmASTM D5185m>95NickelppmASTM D5185m>95NickelppmASTM D5185m>100AluminumppmASTM D5185m>401AluminumppmASTM D5185m>10VanadiumppmASTM D5185m>10VanadiumppmASTM D5185m>10VanadiumppmASTM D5185m>10SilconppmASTM D5185m>10Value Metalscalar*VisualNONENONESilconppmASTM D5185m>2022SiltonppmASTM D5185m>2022SiltonppmASTM D5185m>20NORE	Sample Number		Client Info		JR0204093		
Oil Age Filter AgehrsClient Info641Filter AgehrsClient InfoNot ChangdOil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/APQASTM D8184>1250271IronppmASTM D5185m>750244ChromiumppmASTM D5185m>95NickelppmASTM D5185m>00SilverppmASTM D5185m>100AluminumppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>202VanadiumppmASTM D5185m>202VanadiumppmASTM D5185m>202VanadiumppmASTM D5185m>202VanadiumppmASTM D5185m>202SiliconppmASTM D5185m>201Siliconppm <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>13 Feb 2024</th> <th></th> <th></th>	Sample Date		Client Info		13 Feb 2024		
Filter Age Oil ChangedhrsClient Info0Sample StatusClient InfoNA ChangdSample StatusXTM DS184>1250271PQASTM DS185>750244IronpmASTM DS185>905NickelpmASTM DS185>100NickelpmASTM DS185>100SilverpmASTM DS185>100SilverpmASTM DS185>100QuantinumpmASTM DS185>100AluminumpmASTM DS185>100VanadiumpmASTM DS185>100VanadiumpmASTM DS185>202Valdescalar*VisualNONENONESiliconppmASTM DS185>202SiliconppmASTM DS185>202SiliconppmASTM DS185>202SiliconppmASTM DS185>202SiliconppmASTM DS185>202SiliconppmASTM DS185>201Siliconp	Machine Age	hrs	Client Info		641		
Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoN/ASample StatusN/APQASTM D8184>1250271IronppASTM D5185>0244ChromiumppASTM D5185>00NickelppASTM D5185>00NickelppASTM D5185>100NickelppASTM D5185>100SilverppASTM D5185>401AluminumppASTM D5185>100LeadppASTM D5185>100VandumppASTM D5185>100VandumppASTM D5185>100VandumppASTM D5185>100Valdescalar*VisualNONENONESiliconppASTM D5185>2024SiliconppASTM D5185>2024SiliconppASTM D5185>2024SiliconppASTM D5185>2024SiliconppASTM D5185 <td< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>641</th><th></th><th></th></td<>	Oil Age	hrs	Client Info		641		
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Sample Status  NORMAL      PQ  ASTM D8184  >1250  271      Iron  ppm  ASTM D8185  >750  244      Chromium  ppm  ASTM D5185m  >9  5      Nickel  ppm  ASTM D5185m  >9  5      Silver  ppm  ASTM D5185m  >10  0      Aluminum  ppm  ASTM D5185m  >40  1      Lead  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0	Oil Changed		Client Info		Not Changd		
PQASTM D8184>1250271IronppmASTM D6185m>750244ChromiumppmASTM D6185m>95NickelppmASTM D6185m>100TitaniumppmASTM D6185m<1SilverppmASTM D6185m>402AluminumppmASTM D6185m>401LeadppmASTM D6185m>100CopperppmASTM D6185m>100VanadiumppmASTM D6185m>100VanadiumppmASTM D6185m>100Veltow Metalscalar*VisualNONENONEVeltow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7524SiliconppmASTM D5185m>202Silitonscalar*VisualNONENONESilitonscalar*VisualNONENONESolitonscalar*VisualNONENONESolitonscalar*VisualNORENONESodiumppm<	Filter Changed		Client Info		N/A		
Iron  ppm  ASTM D5185m  >750  244     Chromium  ppm  ASTM D5185m  >0     Nickel  ppm  ASTM D5185m  >10     Titanium  ppm  ASTM D5185m      Silver  ppm  ASTM D5185m  >40  2     Aluminum  ppm  ASTM D5185m  >40  1     Lead  ppm  ASTM D5185m  >40  1     Copper  ppm  ASTM D5185m  >40  1     Vanadium  ppm  ASTM D5185m  >40  1     Vanadium  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  >75  24     Vanadium  ppm  ASTM D5185m  >75  NEG	Sample Status				NORMAL		
Iron  ppm  ASTM D5185m  >750  244     Chromium  ppm  ASTM D5185m  >9  5     Nickel  ppm  ASTM D5185m  >10      Titanium  ppm  ASTM D5185m       Silver  ppm  ASTM D5185m  >40  2      Aluminum  ppm  ASTM D5185m  >40  1      Lead  ppm  ASTM D5185m  >40  1      Copper  ppm  ASTM D5185m  >40  1      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >75  24      Vanadium  ppm  ASTM D5185m  >75  NEG     Silicon  ppm  ASTM D5185m  >75  NEG				1050	074		
Drive  ppm  ASTM D5185m  >P0  5    Nickel  ppm  ASTM D5185m  >10     Nickel  ppm  ASTM D5185m  >10     Silver  ppm  ASTM D5185m      Aluminum  ppm  ASTM D5185m  >40  2     Aluminum  ppm  ASTM D5185m  >40  1     Lead  ppm  ASTM D5185m  >40  1     Copper  ppm  ASTM D5185m  >40  1     Vanadium  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  >75  24     Vander  visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  24     Siliton  scalar  *Visual  NONE							
Nickel  ppm  ASTM D5185m  >10     Titanium  ppm  ASTM D5185m  <1     Silver  ppm  ASTM D5185m  >40  2     Aluminum  ppm  ASTM D5185m  >40  2     Lead  ppm  ASTM D5185m  >10  0     Copper  ppm  ASTM D5185m  >10  0     Vanadium  ppm  ASTM D5185m  >175  24							
Titanium  ppm  ASTM D5185m  <1					-		
Silver  ppm  ASTM D5185m  0      Aluminum  ppm  ASTM D5185m  >40  2      Lead  ppm  ASTM D5185m  >40  1      Copper  ppm  ASTM D5185m  >40  1      Tin  ppm  ASTM D5185m  >40  1      Vanadium  ppm  ASTM D5185m  >40  1      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >75  24      Vellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  24      Silicon  scalar  *Visual  NONE  NONE      Silit  scalar  *Visual  NONE </th <th></th> <th></th> <th></th> <th>&gt;10</th> <th>-</th> <th></th> <th></th>				>10	-		
Aluminum  ppm  ASTM D5185m  >40  2     Lead  ppm  ASTM D5185m  >15  0     Copper  ppm  ASTM D5185m  >40  1      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  NONE      Vanadium  ppm  ASTM D5185m  >75  24      Vellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >20  22      Silicon  ppm  ASTM D5185m  >20  NEG      Silicon  scalar  *Visual  NORM							
Lead  ppm  ASTM D5185m  >15  0     Copper  ppm  ASTM D5185m  >40  1      Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE      Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  24      Vater  WC Method  >0.075  NEG      Silit  scalar  *Visual  NONE  ILIGHT      Sand/Dirt  scalar  *Visual  NORM  NORML      Appearance  scalar  *Visual  NORML  NORML      Godor  scalar  *Visual  NORML <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Copper  ppm  ASTM D5185m  >40  1     Tin  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      White Metal  scalar  *Visual  NONE  NONE      Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >75  24      Potassium  ppm  ASTM D5185m  >20  2      Water  WC Method  >0.075  NEG       Sand/Dirt  scalar  *Visual  NONE  ILIGHT      Appearance  scalar  *Visual  NORM  NORML      Godor  scalar  *Visual  NORML  NORML      Boron  ppm  ASTM D5				- 10	_		
TinppmASTM D5185m>100VanadiumppmASTM D5185m0White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7524PotassiumppmASTM D5185m>202WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONEILIGHTSand/Dirtscalar*VisualNOREAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLSodiumppmASTM D5185m>1700BoronppmASTM D5185m20019MolybdenumppmASTM D5185m121MagnesiumppmASTM D5185m15041PhosphorusppmASTM D5185m12523SuffurppmASTM D5185m12523SolfurppmASTM D5185m12523Magnesium		ppm					
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White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7524PotassiumppmASTM D5185m>202WaterWC Method>0.075NEGSilitscalar*VisualNONENONEDebrisscalar*VisualNONEILIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMLSodiumppmASTM D5185m>1700BoronppmASTM D5185m20019ManganeseppmASTM D5185m121ManganeseppmASTM D5185m121MangensiumppmASTM D5185m12523PhosphorusppmASTM D5185m12523SulfurppmASTM D5185m12523	Tin	ppm	ASTM D5185m	>10	0		
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7524PotassiumppmASTM D5185m>202WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENOREAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLSodiumppmASTM D5185m>1700BoronppmASTM D5185m20019MolybdenumppmASTM D5185m121ManganeseppmASTM D5185m12011MagnesiumppmASTM D5185m15041PhosphorusppmASTM D5185m12523SulfurppmASTM D5185m12523SulfurppmASTM D5185m12523SulfurppmASTM D5185m12518571SulfurppmASTM D5185m12523Sulfu		ppm	ASTM D5185m		0		
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PotassiumppmASTM D5185m>202WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>1700BoronppmASTM D5185m20019MalganeseppmASTM D5185m121MagnesiumppmASTM D5185m15041PhosphorusppmASTM D5185m12523SulfurppmASTM D5185m12523SulfurppmASTM D5185m12523	Yellow Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>202WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>1700BoronppmASTM D5185m20019MalganeseppmASTM D5185m121MagnesiumppmASTM D5185m15041PhosphorusppmASTM D5185m12523SulfurppmASTM D5185m12523SulfurppmASTM D5185m12523	Silicon	nnm	ASTM D5185m	>75	24		
WaterWC Method>0.075NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>1700BariumppmASTM D5185m20019MolybdenumppmASTM D5185m121MagnesiumppmASTM D5185m121PhosphorusppmASTM D5185m121PhosphorusppmASTM D5185m120411PhosphorusppmASTM D5185m123SilturppmASTM D5185m125233SulfurppmASTM D5185m125233SulfurppmASTM D5185m125233SulfurppmASTM D5185m125233SulfurppmASTM D5185m125233SulfurppmASTM D5185m12518571SulfurppmASTM D5185m12518571 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
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Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>1700BoronppmASTM D5185m20019BariumppmASTM D5185m20019MolybdenumppmASTM D5185m121MagnesiumppmASTM D5185m121CalciumppmASTM D5185m15041PhosphorusppmASTM D5185m12523ZincppmASTM D5185m12523SulfurppmASTM D5185m255018571					-		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>1700BoronppmASTM D5185m20019BariumppmASTM D5185m20019MolybdenumppmASTM D5185m121MagnesiumppmASTM D5185m121MagnesiumppmASTM D5185m15041PhosphorusppmASTM D5185m12523ZincppmASTM D5185m12523SulfurppmASTM D5185m250018571SulfurppmASTM D5185m250018571							
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGSodiumppmASTM D5185m>1700BoronppmASTM D5185m400699BariumppmASTM D5185m20019MolybdenumppmASTM D5185m121ManganeseppmASTM D5185m121MagnesiumppmASTM D5185m121PhosphorusppmASTM D5185m15041PhosphorusppmASTM D5185m12523ZincppmASTM D5185m12523SulfurppmASTM D5185m250018571					-		
Emulsified Water  scalar  *Visual  >0.075  NEG     Sodium  ppm  ASTM D5185m  >170  0      Boron  ppm  ASTM D5185m  400  699      Barium  ppm  ASTM D5185m  200  19      Molybdenum  ppm  ASTM D5185m  12  1      Manganese  ppm  ASTM D5185m  12  1      Magnesium  ppm  ASTM D5185m  12  1      Phosphorus  ppm  ASTM D5185m  12  1      Phosphorus  ppm  ASTM D5185m  150  41      Phosphorus  ppm  ASTM D5185m  125  23      Zinc  ppm  ASTM D5185m  125  18571      Sulfur  ppm  ASTM D5185m<					-		
Sodium  ppm  ASTM D5185m  >170  0      Boron  ppm  ASTM D5185m  400  69      Barium  ppm  ASTM D5185m  200  19      Molybdenum  ppm  ASTM D5185m  12  1      Manganese  ppm  ASTM D5185m  12  5      Magnesium  ppm  ASTM D5185m  12  1      Calcium  ppm  ASTM D5185m  12  1      Phosphorus  ppm  ASTM D5185m  150  41      Zinc  ppm  ASTM D5185m  125  23      Sulfur  ppm  ASTM D5185m  22500  18571					-		
Boron  ppm  ASTM D5185m  400  69      Barium  ppm  ASTM D5185m  200  19      Molybdenum  ppm  ASTM D5185m  12  1      Manganese  ppm  ASTM D5185m  12  1      Magnesium  ppm  ASTM D5185m  12  1      Calcium  ppm  ASTM D5185m  120  41      Phosphorus  ppm  ASTM D5185m  1650  593      Zinc  ppm  ASTM D5185m  125  23      Sulfur  ppm  ASTM D5185m  22500  18571				20.070			
Barium  ppm  ASTM D5185m  200  19      Molybdenum  ppm  ASTM D5185m  12  1      Manganese  ppm  ASTM D5185m  12  1      Magnesium  ppm  ASTM D5185m  12  1      Calcium  ppm  ASTM D5185m  120  41      Phosphorus  ppm  ASTM D5185m  1650  593      Zinc  ppm  ASTM D5185m  125  23      Sulfur  ppm  ASTM D5185m  22500  18571	Sodium	ppm	ASTM D5185m	>170	0		
Molybdenum  ppm  ASTM D5185m  12  1      Manganese  ppm  ASTM D5185m  12  5      Magnesium  ppm  ASTM D5185m  12  1      Magnesium  ppm  ASTM D5185m  12  1      Calcium  ppm  ASTM D5185m  150  41      Phosphorus  ppm  ASTM D5185m  1650  593      Zinc  ppm  ASTM D5185m  125  23      Sulfur  ppm  ASTM D5185m  22500  18571	Boron	ppm	ASTM D5185m	400	69		
Manganese  ppm  ASTM D5185m  5      Magnesium  ppm  ASTM D5185m  12  1      Calcium  ppm  ASTM D5185m  150  41      Phosphorus  ppm  ASTM D5185m  1650  593      Zinc  ppm  ASTM D5185m  125  23      Sulfur  ppm  ASTM D5185m  22500  18571	Barium	ppm	ASTM D5185m	200	19		
Magnesium  ppm  ASTM D5185m  12  1      Calcium  ppm  ASTM D5185m  150  41      Phosphorus  ppm  ASTM D5185m  1650  593      Zinc  ppm  ASTM D5185m  125  23      Sulfur  ppm  ASTM D5185m  22500  18571	Molybdenum	ppm	ASTM D5185m	12	1		
Calcium  ppm  ASTM D5185m  150  41      Phosphorus  ppm  ASTM D5185m  1650  593      Zinc  ppm  ASTM D5185m  125  23      Sulfur  ppm  ASTM D5185m  22500  18571	Manganese	ppm	ASTM D5185m		5		
Phosphorus  ppm  ASTM D5185m  1650  593      Zinc  ppm  ASTM D5185m  125  23      Sulfur  ppm  ASTM D5185m  22500  18571	Magnesium	ppm	ASTM D5185m	12	1		
Zinc  ppm  ASTM D5185m  125  23     Sulfur  ppm  ASTM D5185m  22500  18571	Calcium	ppm	ASTM D5185m	150	41		
Sulfur  ppm  ASTM D5185m  22500  18571	Phosphorus	ppm	ASTM D5185m	1650	593		
	Zinc	ppm	ASTM D5185m	125	23		
	Sulfur	ppm	ASTM D5185m	22500	18571		
VISC (20 40°C COL AOIM D440 143 (184 /	Visc @ 40°C	cSt	ASTM D445	143	184		

Submitted By: Ray Benson







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