

NORMAL
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#### Machine Id **C00011** - NORTH BRIDGE Component Gearbox

GEAR OIL ISO 150 (--- GAL)

# RECOMMENDATION

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.

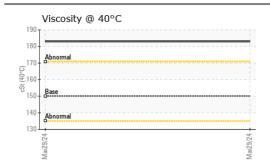
## FLUID CONDITION

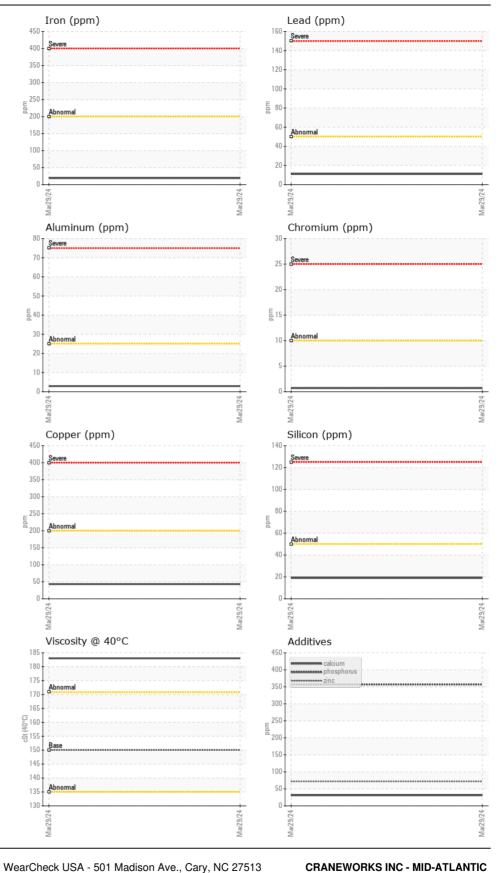
The condition of the oil is acceptable for the time in service.

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TestUOMMethodLimitAbCurrentHistory1History2Sample NumberCClient InfoDC0033207Sample DateClient Info29 Mar 2024Machine AgehrsClient Info0Oil AgehrsClient Info0Filter AgehrsClient InfoNot ChangdGil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusClient InfoNot ChangdTronppmASTM D5185>20019NickelppmASTM D5185>10<1NickelppmASTM D5185>10<1SilverppmASTM D5185>20043AluminumppmASTM D5185>20043VanadiumppmASTM D5185>20043VanadiumppmASTM D5185>20043VanadiumppmASTM D5185>20043VanadiumppmASTM D5185>20043SiliconppmASTM D5185>20011SiliconppmASTM D5185>2012<							
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Oil Age Filter AgehrsClient Info0Filter AgehrsClient InfoNot ChangdGil ChangedClient InfoNot ChangdFilter ChangedQClient InfoNot ChangdSample StatusStill D518s>20019IronppmASTM D518s520019ChromiumppmASTM D518s10<1NickelppmASTM D518s10<1SilverppmASTM D518s5253AluminumppmASTM D518s>20043LeadppmASTM D518s5011VandaumppmASTM D518s5019ValdaumppmASTM D518s5019ValdaumppmASTM D518s5019SiliconppmASTM D518s5019SiliconppmASTM D518s5019SiliconppmASTM D518s5019SiliconppmASTM D518s5019SiliconppmASTM D518s5019SiliconppmASTM D518s5019S	Sample Date		Client Info		29 Mar 2024		
Filter Age OIInstructionImage OImage OIClient InfoNot ChangdImage Image ImageImage ImageClient InfoNot ChangdImage ImageImage <b< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th></th><th></th></b<>	Machine Age	hrs	Client Info		0		
Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusVIIIINORMALIronppmASTM D5185m>20019ChromiumppmASTM D5185m>10<1NickelppmASTM D5185m>10<1NickelppmASTM D5185m>10<1SilverppmASTM D5185m>5011AluminumppmASTM D5185m>5011CopperppmASTM D5185m>20043VanadiumppmASTM D5185m>10<1VanadiumppmASTM D5185m>5019Vellow Metalscalar'VisualNONENONESiliconppmASTM D5185m>5019SiliconppmASTM D5185m>5019SiliconppmASTM D5185m>5019SiliconppmASTM D5185m>5019SiliconppmASTM D5185m>5019SiliconppmASTM D5185m>5019SoliconppmASTM D5185m>5019S	Oil Age	hrs	Client Info		0		
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Sample StatusNORMALIronppmASTM D5185>20019ChromiumppmASTM D5185>10<1NickelppmASTM D5185>10<1TitaniumppmASTM D5185>10<1SilverppmASTM D5185>253AluminumppmASTM D5185>2043LeadppmASTM D5185>2043CopperppmASTM D5185>10<1VanadiumppmASTM D5185>10<1VanadiumppmASTM D5185>5019Veltow Metalscalar*VisualNONENONESiliconppmASTM D5185>202SiliconppmASTM D5185>202SiliconppmASTM D5185>202SiliconppmASTM D5185>202SiliconppmASTM D5185>202SiliconppmASTM D5185>202SiliconppmASTM D5185>2018SiliconppmASTM D51855019Solic	Oil Changed		Client Info		Not Changd		
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Chromium  ppm  ASTM D5185m  >10  <1	Sample Status				NORMAL		
Chromium  ppm  ASTM D5185m  >10  <1							
NickelppmASTM D5185m>10<1	-				-		
Titanium  ppm  ASTM D5185m  <1							
SilverppmASTM D5185m0AluminumppmASTM D5185m>203LeadppmASTM D5185m>5011CopperppmASTM D5185m>20043TinppmASTM D5185m>10<1VanadiumppmASTM D5185m>10<1White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONE19SiliconppmASTM D5185m>5019SiliconppmASTM D5185m>202SiliconppmASTM D5185m>202Siliconscalar*VisualNONENONESilitscalar*VisualNONENONESand/Dirtscalar*VisualNORHNOREAppearancescalar*VisualNORHNORMLSodiumppmASTM D5185m507BoronppmASTM D5185m152MolybdenumppmASTM D5185m507MarganeseppmASTM D5185m5031Magnesiumppm </th <th></th> <th></th> <th></th> <th>&gt;10</th> <th></th> <th></th> <th></th>				>10			
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Lead  ppm  ASTM D5185m  >50  11     Copper  ppm  ASTM D5185m  >200  43      Tin  ppm  ASTM D5185m  >10  <1      Vanadium  ppm  ASTM D5185m  >10  <1      White Metal  scalar  *Visual  NONE  NONE      Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >50  19      Vater  WC Method  >0.2  NEG      Silit  scalar  *Visual  NONE  NONE      Sand/Dirt  scalar  *Visual  NONE  NORE      Appearance  scalar  *Visual  NORH  NORML      Sodium  ppm  ASTM D5185m		ppm			-		
Copper  ppm  ASTM D5185m  >200  43      Tin  ppm  ASTM D5185m  >10  <1      Vanadium  ppm  ASTM D5185m  >10  <1      White Metal  scalar  *Visual  NONE  NONE      Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >50  19      Potassium  ppm  ASTM D5185m  >20  2      Water  WC Method  >0.2  NEG      Silt  scalar  *Visual  NONE  NONE      Debris  scalar  *Visual  NORM  NORML      Appearance  scalar  *Visual  NORML  NORML         Godor  scalar  *Visual		ppm					
TinppmASTM D5185m>10<1		ppm					
VanadiumppmASTM D5185m<1		ppm					
White Metal  scalar  *Visual  NONE  NONE     Yellow Metal  scalar  *Visual  NONE  NONE      Silicon  ppm  ASTM D5185m  >50  19      Potassium  ppm  ASTM D5185m  >20  2      Water  WC Method  >0.2  NEG      Silt  scalar  *Visual  NONE  NONE      Debris  scalar  *Visual  NONE  NONE      Sand/Dirt  scalar  *Visual  NONE  NORE      Appearance  scalar  *Visual  NORM  NORML      Odor  scalar  *Visual  NORM  NORML      Sodium  ppm  ASTM D5185m  50  7      Barium  ppm  ASTM D5185m  <		ppm		>10			
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>5019PotassiumppmASTM D5185m>202WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLBoronppmASTM D5185m507BariumppmASTM D5185m15<1MalybdenumppmASTM D5185m507ManganeseppmASTM D5185m507MagnesiumppmASTM D5185m5031PhosphorusppmASTM D5185m5031ZincppmASTM D5185m10072SulfurppmASTM D5185m1250014477SulfurppmASTM D5185m1250014477	Vanadium	ppm	ASTM D5185m				
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Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m507BoronppmASTM D5185m507BariumppmASTM D5185m152MolybdenumppmASTM D5185m15<1ManganeseppmASTM D5185m507MagnesiumppmASTM D5185m507PhosphorusppmASTM D5185m5031PhosphorusppmASTM D5185m350357ZincppmASTM D5185m10072SulfurppmASTM D5185m1250014477							
Emulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m505BoronppmASTM D5185m507BariumppmASTM D5185m152MolybdenumppmASTM D5185m15<1ManganeseppmASTM D5185m507MagnesiumppmASTM D5185m507CalciumppmASTM D5185m5031PhosphorusppmASTM D5185m350357ZincppmASTM D5185m10072SulfurppmASTM D5185m1250014477					-		
Sodium  ppm  ASTM D5185m  50  5     Boron  ppm  ASTM D5185m  50  7      Barium  ppm  ASTM D5185m  15  2      Molybdenum  ppm  ASTM D5185m  15  2      Manganese  ppm  ASTM D5185m  15  <1      Magnesium  ppm  ASTM D5185m  50  7      Phosphorus  ppm  ASTM D5185m  50  7      Phosphorus  ppm  ASTM D5185m  50  31      Zinc  ppm  ASTM D5185m  350  357      Sulfur  ppm  ASTM D5185m  100  72							
Boron  ppm  ASTM D5185m  50  7     Barium  ppm  ASTM D5185m  15  2     Molybdenum  ppm  ASTM D5185m  15  2     Manganese  ppm  ASTM D5185m  15  <1     Magnesium  ppm  ASTM D5185m  50  7     Calcium  ppm  ASTM D5185m  50  7     Phosphorus  ppm  ASTM D5185m  50  31     Zinc  ppm  ASTM D5185m  350  357     Sulfur  ppm  ASTM D5185m  100  72	Emulsified Water	scalar	*Visual	>0.2			
Barium  ppm  ASTM D5185m  15  2     Molybdenum  ppm  ASTM D5185m  15  2      Manganese  ppm  ASTM D5185m  15  <1	Emulsified Water	scalar	*Visual	>0.2			
Molybdenum  ppm  ASTM D5185m  15  <1				>0.2	NEG		
Manganese  ppm  ASTM D5185m  <1	Sodium	ppm	ASTM D5185m		NEG 5		
Magnesium  ppm  ASTM D5185m  50  7      Calcium  ppm  ASTM D5185m  50  31      Phosphorus  ppm  ASTM D5185m  350  357      Zinc  ppm  ASTM D5185m  100  72      Sulfur  ppm  ASTM D5185m  12500  14477	Sodium Boron	ppm ppm	ASTM D5185m ASTM D5185m	50	NEG 5 7		
Calcium  ppm  ASTM D5185m  50  31      Phosphorus  ppm  ASTM D5185m  350  357      Zinc  ppm  ASTM D5185m  100  72      Sulfur  ppm  ASTM D5185m  12500  14477	Sodium Boron Barium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 15	NEG 5 7 2		
Phosphorus  ppm  ASTM D5185m  350  357      Zinc  ppm  ASTM D5185m  100  72      Sulfur  ppm  ASTM D5185m  12500  14477	Sodium Boron Barium Molybdenum	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15	NEG 5 7 2 <1		
Zinc  ppm  ASTM D5185m  100  72      Sulfur  ppm  ASTM D5185m  12500  14477	Sodium Boron Barium Molybdenum Manganese	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15	NEG 5 7 2 <1 <1	   	
Sulfur  ppm  ASTM D5185m  12500  14477	Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50	NEG 5 7 2 <1 <1 <1 7		  
	Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50 50	NEG 5 7 2 <1 <1 7 31		    
Visc @ 40°C cSt ASTM D445 150 183	Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50 50 350	NEG 5 7 2 <1 <1 <1 7 31 357		     
	Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50 50 350 100	NEG 5 7 2 <1 <1 7 31 357 72		     

Contact/Location: JASON WILDE - CRAASHMA







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 11089 LEADBETTER ROAD : DC0033207 : 15 Apr 2024 Lab Number : 06149117 ASHLAND, VA Tested : 16 Apr 2024 Unique Number : 10979195 : 17 Apr 2024 - Sean Felton US 23005 Diagnosed Test Package : MOB 1 Contact: JASON WILDE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jcwilde@vacraneworks.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: JASON WILDE - CRAASHMA Page 2 of 2

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