

Machine Id **C0004 - NORTH BRIDGE** Component **Gearbox**

{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

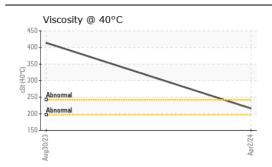
FLUID CONDITION

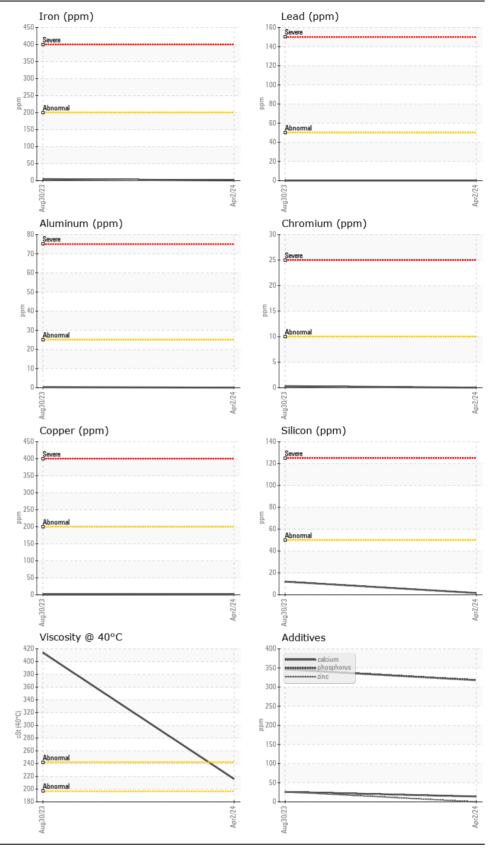
The condition of the oil is acceptable for the time in service.

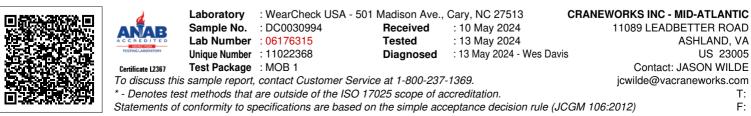
TestUOMMethodLimit/MCurrentHistory1History1History1Sample NumberClient Info00C0029145Sample DatClient Info00Machine AgehrsClient Info00Oil AgehrsClient Info00Filter AgehrsClient Info00Gli ChangedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoNot ChangdNot ChangdSample StatusNorRMALNORMALIronppmASTM D5185>200<14NickelppmASTM D5185>100<NickelppmASTM D5185>100<NickelppmASTM D5185>100<SilverppmASTM D5185>200<AluminumppmASTM D5185>200<NadadumppmASTM D5185>200<VanadumppmASTM D5185>201<VanadumppmASTM D5185>201<VanadumppmASTM D5185>201<VanadumppmASTM D5185>201<VanadumppmASTM D							
Sample DateClient Info02 Apr 202430 Aug 2023Machine AgehrsClient Info00Gil AgehrsClient Info00Filter AgehrsClient InfoNot ChangdNot ChangdGil ChangedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoNot ChangdNot ChangdGil ChangedClient InfoNot ChangdNot ChangdSample StatusNot ChangdIronppmASTM D5185>200<14NickelppmASTM D5185>100<NickelppmASTM D5185>500<AluminumppmASTM D5185>500<AluminumppmASTM D5185>200<1<VanadiumppmASTM D5185>100<VanadiumppmASTM D5185>100<VanadiumppmASTM D5185>100<VanadiumppmASTM D5185>100<VanadiumppmASTM D5185>2018VanadiumppmASTM D5185>2018VanadiumppmASTM D5185>2018Vanadium <t< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></t<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info00Oil AgehrsClient Info00Filter AgehrsClient InfoNot ChangdNot ChangdOil ChangedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoNot ChangdNot ChangdSample StatusVisualNot ChangdIronppmASTM D5185m>200<14NickelppmASTM D5185m>100<1NickelppmASTM D5185m>100<1SilverppmASTM D5185m>250<1AluminumppmASTM D5185m>5000CopperppmASTM D5185m>500<1VanadiumppmASTM D5185m>5000VanadiumppmASTM D5185m>5000VanadiumppmASTM D5185m5000VanadiumppmASTM D5185m5000VanadiumppmASTM D5185m5000VanadiumppmASTM D5185m5018VanadiumppmASTM D5185m5018VanadiumppmASTM D5185m5018Vallowkeiiikei	Sample Number		Client Info		DC0030994	DC0029145	
Oil Age Filter Age Filter Age (Filter AnagedClient Info00Filter ChangedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoNot ChangdNot ChangdSample StatusClient InfoNot ChangdNot ChangdIronppmASTM D5185m>200<14NickelppmASTM D5185m>100<1NickelppmASTM D5185m>100<1NickelppmASTM D5185m>5000SilverppmASTM D5185m>5000LeadppmASTM D5185m>5000CopperppmASTM D5185m>5000VanduiumppmASTM D5185m>5000ValduiumppmASTM D5185m>501Veltow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>50212SiliconppmASTM D5185m>5018SiliconppmASTM D5185m>5018SiliconppmASTM D5185m>5018SiliconppmASTM D5185m>5018SodiumppmASTM D5185m>502	Sample Date		Client Info		02 Apr 2024	30 Aug 2023	
Filter AgehrsClient Info00Oil ChangedClient InfoNot ChangdNot ChangdFilter ChangedQClient InfoNot ChangdNot ChangdSample StatusNormanNormanNormanIronppmASTM D5185m>200<14ChromiumppmASTM D5185m>100<1NickelppmASTM D5185m>100<NickelppmASTM D5185m>100SilverppmASTM D5185m>5000LeadppmASTM D5185m>200<1<VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185m>5018Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185m>5018Yellow Metalscalar'VisualNONENONENONESolitscalar'VisualNONENONENONESolitonppmASTM D5185m>018Solitonscalar'VisualNORMNORMLNOR	Machine Age	hrs	Client Info		0	0	
Oil ChangedClient InfoNot ChangqNot ChangqFilter ChangedClient InfoNot ChangqNot ChangqSample StatusNORMALNORMALIronppmASTM D5185m>200<14ChromiumppmASTM D5185m>100<1NickelppmASTM D5185m>100<1TitaniumppmASTM D5185m>100<1SilverppmASTM D5185m>200<1<1AluminumppmASTM D5185m>200<1<1LeadppmASTM D5185m>200<1<1VanadiumppmASTM D5185m>100<1VanadiumppmASTM D5185m>200<1<1Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185m>2018Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185m>2018SiliconppmASTM D5185m>2018SoliconppmASTM D5185m>2018SoliconppmASTM D5185m>2018SoliconppmASTM D5185m>2018 <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th></th>	Oil Age	hrs	Client Info		0	0	
Filter Changed Sample Status Client Info Not Changd NORMAL	Filter Age	hrs	Client Info		0	0	
Sample StatusNORMALNORMALNORMALIronppmASTM D5185m>200<14ChromiumppmASTM D5185m>100<1NickelppmASTM D5185m>100<1TitaniumppmASTM D5185m>1000SilverppmASTM D5185m>2000AluminumppmASTM D5185m>200<1LeadppmASTM D5185m>200<1<1CopperppmASTM D5185m>200<1<1YanadiumppmASTM D5185m>100<1VanadiumppmASTM D5185m>2018Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>2018Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>2018SiliconppmASTM D5185m>2018SiliconppmASTM D5185m>2018SoliconppmASTM D5185m>2018SoliconppmASTM D5185m>2018SoliconppmASTM D5185m>2018 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Not Changd</th> <th>Not Changd</th> <th></th>	Oil Changed		Client Info		Not Changd	Not Changd	
Iron ppm ASTM D5185m >200 <1	Filter Changed		Client Info		Not Changd	Not Changd	
ppm ASTM D5185m >10 0 <1	Sample Status				NORMAL	NORMAL	
ppm ASTM D5185m >10 0 <1				000	 -	4	
NickelppmASTM D5185m>100<1							
Titanium ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m 0 <1 Aluminum ppm ASTM D5185m >20 <1 < Lead ppm ASTM D5185m >200 <1 < Copper ppm ASTM D5185m >200 <1 < Tin ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >20 1 8 Vellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >20 1 8 Silit scalar *Visual NONE NONE NONE Ap					-		
Silver ppm ASTM D5185m >25 0 Aluminum ppm ASTM D5185m >25 0 <1 Lead ppm ASTM D5185m >50 0 0 Copper ppm ASTM D5185m >200 <1 <1 Tin ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 <11 Vanadium ppm ASTM D5185m >50 2 12 Vellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >20 1 8 Silicon ppm ASTM D5185m >20 1 8 Silit scalar *Visual NONE NONE <th></th> <th></th> <th></th> <th>>10</th> <th>-</th> <th></th> <th></th>				>10	-		
Aluminum ppm ASTM D5185m >25 0 <1							
Lead ppm ASTM D5185m >50 0 0				05	-	÷	
Copper ppm ASTM D5185m >200 <1					-		
TinppmASTM D5185m>100<1					-	-	
VanadiumppmASTM D5185m000White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>50212PotassiumppmASTM D5185m>2018WaterWC Method>0.2NEGNEGSilitscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONEAppearancescalar*VisualNORMNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLGodorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m222BoronppmASTM D5185m02MolybdenumppmASTM D5185m00ManganeseppmASTM D5185m1426MagnesiumppmASTM D5185m026PhosphorusppmASTM D5185m026SulfurppmASTM D5185m026SulfurppmASTM D5185m026SulfurppmASTM D5185m026 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>50212PotassiumppmASTM D5185m>2018WaterWC Method>0.2NEGNEGSilitscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m22BoronppmASTM D5185m02MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m09MagnesiumppmASTM D5185m09PhosphorusppmASTM D5185m026SulfurppmASTM D5185m026SulfurppmASTM D5185m026SulfurppmASTM D5185m026SulfurppmASTM D5185m026SulfurppmASTM D5185m026 </th <th></th> <th></th> <th></th> <th>>10</th> <th>-</th> <th></th> <th></th>				>10	-		
Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>50212PotassiumppmASTM D5185m>2018WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m22BoronppmASTM D5185m02MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m09MagnesiumppmASTM D5185m1426PhosphorusppmASTM D5185m026SulfurppmASTM D5185m026SulfurppmASTM D5185m2074525199							
SiliconppmASTM D5185m>50212PotassiumppmASTM D5185m>2018WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m22BoronppmASTM D5185m02MalganeseppmASTM D5185m00MagnesiumppmASTM D5185m1426PhosphorusppmASTM D5185m318346SulfurppmASTM D5185m026							
PotassiumppmASTM D5185m>2018WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m22BoronppmASTM D5185m02MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m11426PhosphorusppmASTM D5185m1426PhosphorusppmASTM D5185m026SulfurppmASTM D5185m026	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
VaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m22BoronppmASTM D5185m02MolybdenumppmASTM D5185m00MagnesiumppmASTM D5185m11426PhosphorusppmASTM D5185m1426PhosphorusppmASTM D5185m026SuffurppmASTM D5185m2074525199	Silicon	ppm	ASTM D5185m	>50	2	12	
Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m22BoronppmASTM D5185m02BariumppmASTM D5185m00MolybdenumppmASTM D5185m00ManganeseppmASTM D5185m114266PhosphorusppmASTM D5185m318346ZincppmASTM D5185m026SulfurppmASTM D5185m2074525199	Potassium	ppm	ASTM D5185m	>20	1	8	
Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNORNONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m22BoronppmASTM D5185m02MolybdenumppmASTM D5185m000MagnesiumppmASTM D5185m11426PhosphorusppmASTM D5185m1426PhosphorusppmASTM D5185m026SulfurppmASTM D5185m2074525199	Water		WC Method	>0.2	NEG	NEG	
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m22BoronppmASTM D5185m1714BariumppmASTM D5185m02MolybdenumppmASTM D5185m<11<1MagnesiumppmASTM D5185m1426PhosphorusppmASTM D5185m318346ZincppmASTM D5185m026SulfurppmASTM D5185m2074525199	Silt	scalar	*Visual	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m22BoronppmASTM D5185m17144BariumppmASTM D5185m02MolybdenumppmASTM D5185m00ManganeseppmASTM D5185m00MagnesiumppmASTM D5185m09PhosphorusppmASTM D5185m1426PhosphorusppmASTM D5185m026SulfurppmASTM D5185m2074525199	Debris	scalar	*Visual	NONE	NONE	NONE	
Odorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m22BoronppmASTM D5185m1714BariumppmASTM D5185m02MolybdenumppmASTM D5185m00ManganeseppmASTM D5185m<11<11MagnesiumppmASTM D5185m09CalciumppmASTM D5185m14266PhosphorusppmASTM D5185m026ZincppmASTM D5185m0266SulfurppmASTM D5185m026	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water scalar *Visual >0.2 NEG NEG Sodium ppm ASTM D5185m 2 2 Boron ppm ASTM D5185m 17 14 Barium ppm ASTM D5185m 0 2 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m <11 <11 Magnesium ppm ASTM D5185m 0 9 Calcium ppm ASTM D5185m 14 26 Phosphorus ppm ASTM D5185m 318 346 Zinc ppm ASTM D5185m 0 26 Sulfur ppm ASTM D5185m 20745 25199	Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium ppm ASTM D5185m 2 2 Boron ppm ASTM D5185m 17 14 Barium ppm ASTM D5185m 0 2 Molybdenum ppm ASTM D5185m 0 2 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m <1 <1 Magnesium ppm ASTM D5185m 0 9 Calcium ppm ASTM D5185m 14 26 Phosphorus ppm ASTM D5185m 318 346 Zinc ppm ASTM D5185m 0 26 Sulfur ppm ASTM D5185m 20745 25199	Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 17 14 Barium ppm ASTM D5185m 0 2 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m Magnesium ppm ASTM D5185m Magnesium ppm ASTM D5185m 0 9 Calcium ppm ASTM D5185m 14 26 Phosphorus ppm ASTM D5185m 318 346 Zinc ppm ASTM D5185m 0 26 Sulfur ppm ASTM D5185m 20745 25199	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Barium ppm ASTM D5185m 0 2 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m <1	Sodium	ppm	ASTM D5185m		2	2	
Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m <1 <1 Magnesium ppm ASTM D5185m 0 9 Magnesium ppm ASTM D5185m 0 9 Calcium ppm ASTM D5185m 14 26 Phosphorus ppm ASTM D5185m 318 346 Zinc ppm ASTM D5185m 0 26 Sulfur ppm ASTM D5185m 20745 25199	Boron	ppm	ASTM D5185m		17	14	
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0	2	
Magnesium ppm ASTM D5185m 0 9 Calcium ppm ASTM D5185m 14 26 Phosphorus ppm ASTM D5185m 318 346 Zinc ppm ASTM D5185m 0 26 Sulfur ppm ASTM D5185m 0 26	Molybdenum	ppm	ASTM D5185m		0	0	
Calcium ppm ASTM D5185m 14 26 Phosphorus ppm ASTM D5185m 318 346 Zinc ppm ASTM D5185m 0 26 Sulfur ppm ASTM D5185m 0 26	Manganese	ppm	ASTM D5185m		<1	<1	
Phosphorus ppm ASTM D5185m 318 346 Zinc ppm ASTM D5185m 0 26 Sulfur ppm ASTM D5185m 20745 25199	Magnesium	ppm	ASTM D5185m		0	9	
Zinc ppm ASTM D5185m 0 26 Sulfur ppm ASTM D5185m 20745 25199	Calcium	ppm	ASTM D5185m		14	26	
Zinc ppm ASTM D5185m 0 26 Sulfur ppm ASTM D5185m 20745 25199	Phosphorus	ppm	ASTM D5185m		318	346	
	Zinc	ppm	ASTM D5185m		0	26	
	Sulfur	ppm	ASTM D5185m		20745	25199	
	Vice @ 40°C		ASTM D445		216	414	

Contact/Location: JASON WILDE - CRAASHMA

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL







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