

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id NO INFO ON SIF/BOTTLE Component Unknown Component

{not provided} (--- GAL)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

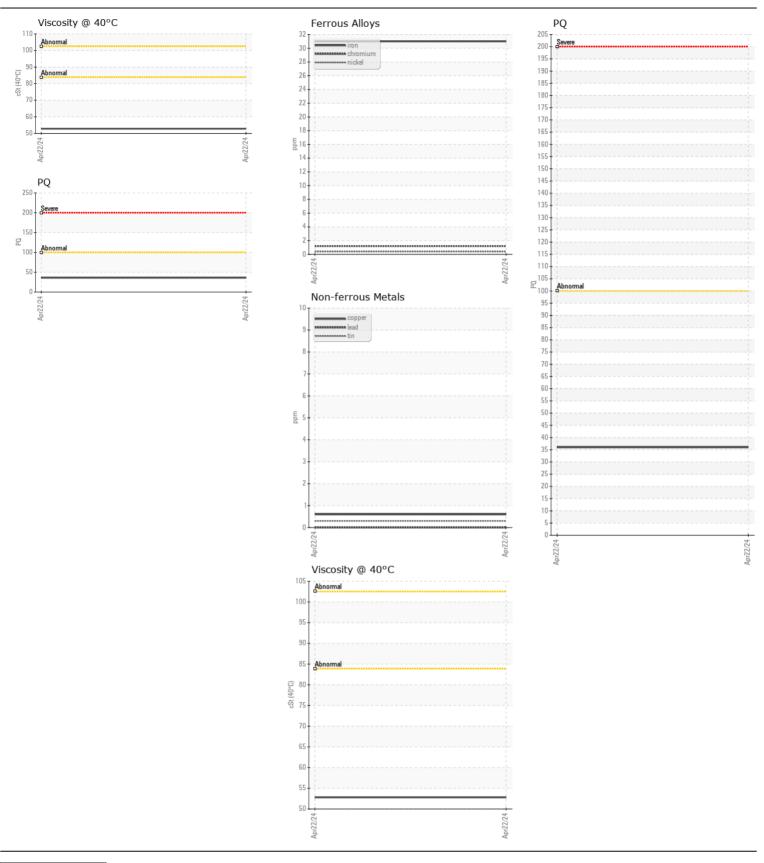
There is no indication of any contamination in the sample.

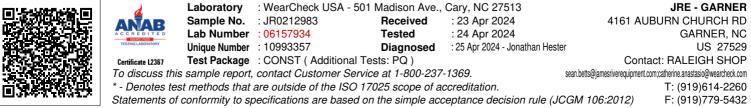
-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	7		r.			T				-						F													
F						L			ľ		ľ			К	М			1				ſ		h	N				
		-		-	4		-	4		-	A	-	4		Ч	Ľ	-				4	-	-	н	<u>.</u>				

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

Test UOM Method Limit/Ab Current History1 History2 Sample Number Client Info JR0212983 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info 0 Filter Age hrs Client Info N/A Filter Changed Client Info N/A Sample Status Viant D5185 A 36 PQ ASTM D5185 A 1 Iron ppm ASTM D5185 A Nickel ppm ASTM D5185 A Aluminum ppm ASTM D5185 A Aluminum ppm ASTM D5185 C							
Sample DateClient Into22 Apr 2024Machine AgehrsClient Into0Oil AgehrsClient Into0Filter AgehrsClient IntoN/AOil ChangedClient IntoN/AFilter ChangedClient IntoN/ASample StatusNoRMALPQASTM D818436PQASTM D51851NickelppmASTM D51851NickelppmASTM D51851SilverpmASTM D51850AluminumpmASTM D5185-1AluminumppmASTM D5185-1LeadppmASTM D5185-1VanadumppmASTM D5185-1VanadumppmASTM D5185-1VanadumppmASTM D5185-1VanadumppmASTM D5185-1Siltoscalar'VisualNONENONESiltoscalar'VisualNONENONESiltscalar </th <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Filter Age hrs Client Info N/A Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D5185m 36 Iron ppm ASTM D5185m 1 Nickel ppm ASTM D5185m 1 Silver ppm ASTM D5185m 1 Aluminum ppm ASTM D5185m 2 Lead ppm ASTM D5185m 1 Vanadium ppm ASTM D5185m 1 Valeadu	Sample Number		Client Info		JR0212983		
Oil Age hrs Client Info 0 Filter Age hrs Client Info N/A Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D8184 36 Iron ppm ASTM D5185m 1 Nickel ppm ASTM D5185m <1 Nickel ppm ASTM D5185m <1 Silver ppm ASTM D5185m <1 Lead ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Yalloum ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 -	Sample Date		Client Info		22 Apr 2024		
Filter Age hrs Client Info 0 Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D8184 36 Iron ppm ASTM D5185m 1 Nickel ppm ASTM D5185m <1 Nickel ppm ASTM D5185m <1 Silver ppm ASTM D5185m <1 Qathminum ppm ASTM D5185m 2 Lead ppm ASTM D5185m 2 Vanadium ppm ASTM D5185m <1 Vanaduum ppm ASTM D5185m <1 Silicon ppm ASTM D5185m 2 3 </th <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th>	Machine Age	hrs	Client Info		0		
Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D8184 36 Iron ppm ASTM D5185m 31 Chromium ppm ASTM D5185m 1 Nickel ppm ASTM D5185m 1 Nickel ppm ASTM D5185m <1 Nickel ppm ASTM D5185m <1 Silver ppm ASTM D5185m <1 Lead ppm ASTM D5185m <1 Copper ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th>	Oil Age	hrs	Client Info		0		
Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D8184 36 Iron ppm ASTM D5185m 0 31 Nickel ppm ASTM D5185m 1 Nickel ppm ASTM D5185m 0 <1 Silver ppm ASTM D5185m 0 Aurninum ppm ASTM D5185m 2 Lead ppm ASTM D5185m 21 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium ppm <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th>	Filter Age	hrs	Client Info		0		
Sample Status NORMAL PQ ASTM D8184 36 Iron ppm ASTM D5185m 1 Nickel ppm ASTM D5185m 1 Nickel ppm ASTM D5185m 1 Nickel ppm ASTM D5185m 1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 1 Vanadium ppm ASTM D5185m <1 Vanadum ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1	Oil Changed		Client Info		N/A		
PQ ASTM D8184 36 Iron ppm ASTM D5185m 31 Chromium ppm ASTM D5185m 1 Nickel ppm ASTM D5185m 1 Nickel ppm ASTM D5185m <1 Silver ppm ASTM D5185m <1 Aluminum ppm ASTM D5185m <0 Lead ppm ASTM D5185m <1 Copper ppm ASTM D5185m <1 Yanadium ppm ASTM D5185m <1 Yanadium ppm ASTM D5185m <1 Yellow Metal scalar Yuisual NONE NONE Silicon ppm ASTM D5185m 7 Silicon ppm ASTM D5185m 20 3 Silicon ppm ASTM D5185m NONE	Filter Changed		Client Info		N/A		
Iron ppm ASTM D5185m 31 Chromium ppm ASTM D5185m 1 Nickel ppm ASTM D5185m <1	Sample Status				NORMAL		
Iron ppm ASTM D5185m 31 Chromium ppm ASTM D5185m 1 Nickel ppm ASTM D5185m <1	PO		ASTM D8184		36		
Chromium ppm ASTM D5185m 1 Nickel ppm ASTM D5185m < <1 Titanium ppm ASTM D5185m < 1 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 1 Lead ppm ASTM D5185m <1 Copper ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <20 3 Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m 20		nnm					
Nickel ppm ASTM D5185m <1					-		
Titanium ppm ASTM D5185m <1							
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 2 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m <1 Tin ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 3 Silit scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORE NORE Appearance scalar *Visual NORM NOR							
Aluminum ppm ASTM D5185m 2 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m <1 Tin ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m<>20 3 Water WC Method NONE NONE Silit scalar *Visual NONE NONE Sand/Dirit scalar *Visual NORML NORML Appe							
Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m <1 Tin ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m 7 Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m 20 3 Water WC Method NEG Sad/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar					-		
CopperppmASTM D5185m<1							
TinppmASTM D5185m<1							
VanadiumppmASTM D5185m<1							
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m7PotassiumppmASTM D5185m>203WaterWC MethodNEGSilitscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m2BoronppmASTM D5185m3MalganeseppmASTM D5185m2ManganeseppmASTM D5185m2MagnesiumppmASTM D5185m106PhosphorusppmASTM D5185m1047ZincppmASTM D5185m1274SulfurppmASTM D5185m3923							
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m7PotassiumppmASTM D5185m>203WaterWC MethodNEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m2BoronppmASTM D5185m3MolybdenumppmASTM D5185m2ManganeseppmASTM D5185m2ManganeseppmASTM D5185m3366PhosphorusppmASTM D5185m1047ZincppmASTM D5185m1274SulfurppmASTM D5185m3323				NONE			
SiliconppmASTM D5185m7PotassiumppmASTM D5185m>203WaterWC MethodNEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m2BoronppmASTM D5185m3MolybdenumppmASTM D5185m2ManganeseppmASTM D5185m2MagnesiumppmASTM D5185m3366PhosphorusppmASTM D5185m3366ZincppmASTM D5185m11047ZincppmASTM D5185m1274SulfurppmASTM D5185m3323				-			
PotassiumppmASTM D5185m>203WaterWC MethodNEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEGSodiumppmASTM D5185m2BoronppmASTM D5185m3MalganeseppmASTM D5185m2MagnesiumppmASTM D5185m2MagnesiumppmASTM D5185m106PhosphorusppmASTM D5185m3366ZincppmASTM D5185m1047SulfurppmASTM D5185m1047							
WaterWC MethodNEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEGSodiumppmASTM D5185m2BoronppmASTM D5185m3BariumppmASTM D5185m2ManganeseppmASTM D5185m2MagnesiumppmASTM D5185m106PhosphorusppmASTM D5185m3366ZincppmASTM D5185m1047SulfurppmASTM D5185m1274	Silicon	ppm	ASTM D5185m		7		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEGSodiumppmASTM D5185m2BoronppmASTM D5185m3BariumppmASTM D5185m2MalganeseppmASTM D5185m2MagnesiumppmASTM D5185m3366PhosphorusppmASTM D5185m1047ZincppmASTM D5185m3323	Potassium	ppm	ASTM D5185m	>20	3		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEGSodiumppmASTM D5185m2BoronppmASTM D5185m3BariumppmASTM D5185m2MolybdenumppmASTM D5185m2MagnesiumppmASTM D5185m2MagnesiumppmASTM D5185m3366PhosphorusppmASTM D5185m1047ZincppmASTM D5185m33923	Water		WC Method		NEG		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NORML Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 2 Phosphorus ppm ASTM D5185m 3366 Zinc ppm ASTM D5185m 1047 Zinc ppm ASTM	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLInormalOdorscalar*VisualNORMLNORMLInormalEmulsified Waterscalar*VisualNORMLNEGSodiumppmASTM D5185m2BoronppmASTM D5185m3BariumppmASTM D5185m3MolybdenumppmASTM D5185m2ManganeseppmASTM D5185m2MagnesiumppmASTM D5185m106PhosphorusppmASTM D5185m3366ZincppmASTM D5185m11274SulfurppmASTM D5185m33923	Debris	scalar	*Visual	NONE	NONE		
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEGSodiumppmASTM D5185m2BoronppmASTM D5185m3BariumppmASTM D5185m3MolybdenumppmASTM D5185m2ManganeseppmASTM D5185m2MagnesiumppmASTM D5185m2CalciumppmASTM D5185m3366PhosphorusppmASTM D5185m1047ZincppmASTM D5185m1274SulfurppmASTM D5185m33923	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual NEG Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 2 Calcium ppm ASTM D5185m 106 Phosphorus ppm ASTM D5185m 3366 Zinc ppm ASTM D5185m 1047 Sulfur ppm ASTM D5185m 33263	Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 2 Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 3 Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 106 Calcium ppm ASTM D5185m 3366 Phosphorus ppm ASTM D5185m 1047 Zinc ppm ASTM D5185m 33263 Sulfur ppm ASTM D5185m 1047	Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 106 Calcium ppm ASTM D5185m 3366 Phosphorus ppm ASTM D5185m 1047 Zinc ppm ASTM D5185m 1274 Sulfur ppm ASTM D5185m 3923	Emulsified Water	scalar	*Visual		NEG		
Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 106 Calcium ppm ASTM D5185m 3366 Phosphorus ppm ASTM D5185m 1047 Zinc ppm ASTM D5185m 1274 Sulfur ppm ASTM D5185m 3923	Sodium	ppm	ASTM D5185m		2		
Barium ppm ASTM D5185m 3 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 106 Calcium ppm ASTM D5185m 3366 Phosphorus ppm ASTM D5185m 1047 Zinc ppm ASTM D5185m 1274 Sulfur ppm ASTM D5185m 3923			ASTM D5185m		3		
Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 106 Calcium ppm ASTM D5185m 3366 Phosphorus ppm ASTM D5185m 1047 Zinc ppm ASTM D5185m 1274 Sulfur ppm ASTM D5185m 3923	Barium		ASTM D5185m		3		
Magnesium ppm ASTM D5185m 106 Calcium ppm ASTM D5185m 3366 Phosphorus ppm ASTM D5185m 1047 Zinc ppm ASTM D5185m 1274 Sulfur ppm ASTM D5185m 3923	Molybdenum	ppm	ASTM D5185m		2		
Calcium ppm ASTM D5185m 3366 Phosphorus ppm ASTM D5185m 1047 Zinc ppm ASTM D5185m 1274 Sulfur ppm ASTM D5185m 3923	Manganese	ppm	ASTM D5185m		2		
Phosphorus ppm ASTM D5185m 1047 Zinc ppm ASTM D5185m 1274 Sulfur ppm ASTM D5185m 3923	Magnesium	ppm	ASTM D5185m		106		
Phosphorus ppm ASTM D5185m 1047 Zinc ppm ASTM D5185m 1274 Sulfur ppm ASTM D5185m 3923	Calcium	ppm	ASTM D5185m		3366		
Sulfur ppm ASTM D5185m 3923	Phosphorus	ppm	ASTM D5185m		1047		
	Zinc	ppm	ASTM D5185m		1274		
Visc @ 40°C cSt ASTM D445 52.8	Sulfur	ppm	ASTM D5185m		3923		
	Visc @ 40°C	cSt	ASTM D445		52.8		

Contact/Location: RALEIGH SHOP - RWMGAR





Contact/Location: RALEIGH SHOP - RWMGAR Page 2 of 2