

No relevant graphs to display

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	MARGINAL	NORMAL		
Debris	scalar	*Visual	NONE	A MODER	A MODER	LIGHT		

Customer Id: CALSHR Sample No.: RP0034842 Lab Number: 05904443 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

# HISTORICAL DIAGNOSIS

# 05 Apr 2023 Diag: Doug Bogart

VIS DEBRIS



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 10 Jan 2023 Diag: Jonathan Hester



Resample at the next service interval to monitor.All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

# Area LOHT Machine Id [LOHT] LOHT-P-G0047D GRBX,ON CHRG PMP (D) Component

Gearbox Fluid

**ROYAL PURPLE SYNFILM GT220 (--- QTS)** 

# DIAGNOSIS

# A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

# Wear

All component wear rates are normal.

# Contamination

Moderate concentration of visible dirt/debris present in the oil.

# **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

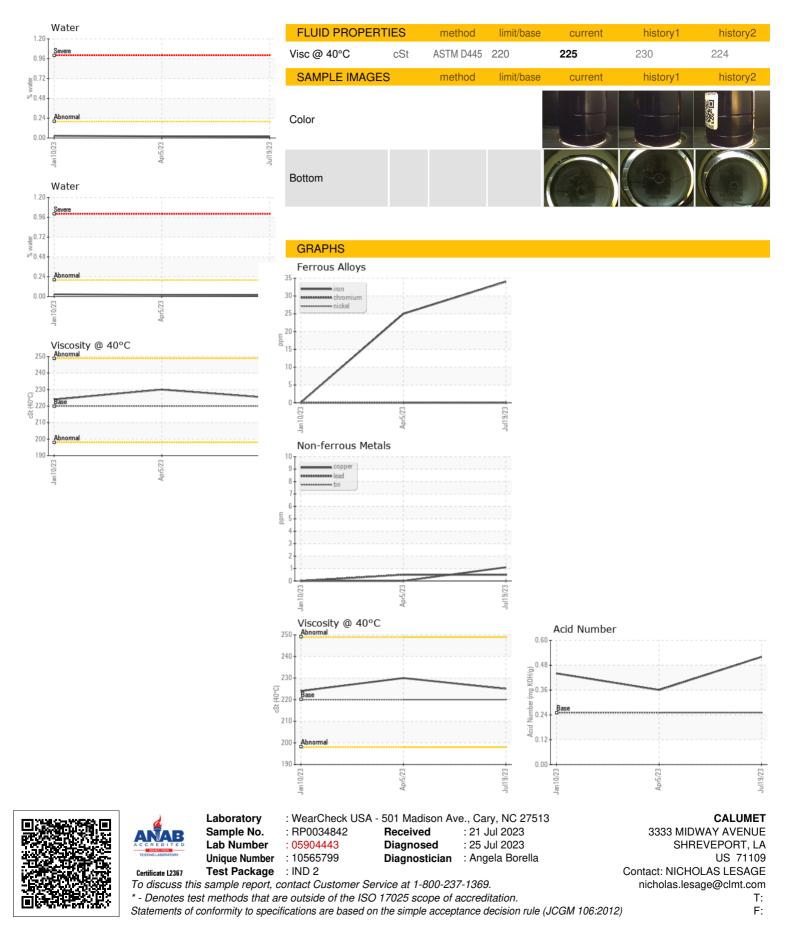
sample NumberClient InfoPP0034842RP0031612RP0031642RP0031612RP0031642Sample DateIClient Info00000Nachine AgehrsClient Info0000Nit AgehrsClient InfoNot ChangdNot ChangdNot ChangdNot ChangdSit AgeClient InfoNot ChangdNot ChangdNot ChangdNot ChangdNot ChangdSit AgeClient InfoNot ChangdNot ChangdNot ChangdNot ChangdWEAR METALSmethodImit/basecurrenthistory1history2ronppmASTM D5185n>15000lickelppmASTM D5185n>10000lickelppmASTM D5185n>200100siturinumppmASTM D5185n>200100oppperppmASTM D5185n200100ranadiumppmASTM D5185n0000ADDITVESmethodImit/basecurrenthistory1history2sindppmASTM D5185n13300AgenesiumppmASTM D5185n0000lightppmASTM D5185n20110sindiumppmASTM D5185n0000lightSTM D5185nS0000ligh			Jar	Jun2023 Apr2023 Jul2023				
Aranje Date       Client Info       19 Jul 2023       05 Apr 2023       10 Jan 2023         Atachine Age       hrs       Client Info       0       0       0         Dil Changed       Client Info       0       0       0       0         Bit Changed       Client Info       Not Changd       Not Changd       Not Changd       Not Changd         WEAR METALS       method       limit/base       current       historyl       historyl       Not Changd         Orn       ppm       ASTM D5185       >200       34       25       <1	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Machine Age   hrs   Client Info   0   0   0     bil Age   hrs   Client Info   0   0   0     bil Changed   Client Info   Not Changd   Mot Changd   Not Changd     sample Status   Imit/base   current   history1   NotRAGINAL     WEAR METALS   method   Imit/base   current   history1   history2     for   ppm   ASTM D5185m   >15   0   0   0     ikckel   ppm   ASTM D5185m   >15   0   0   0     ikarianum   ppm   ASTM D5185m   >100   <1	Sample Number		Client Info		RP0034842	RP0031612	RP0031646	
bit Age   hrs   Client Info   0   0   0     bit Changed   Client Info   Not Changed   Not Changed   Not Changed     aample Status   method   limit/base   current   history1   history1     von   ppm   ASTM D5185m   >200   34   25   <1	Sample Date		Client Info		19 Jul 2023	05 Apr 2023	10 Jan 2023	
Not Changed   Client Info   Not Changed   Not Changed   Not Changed   Not Changed   Not Changed     WEAR METALS   method   limit/base   current   history1   history2     on   ppm   ASTM D5165n   >200   34   25   <1	Machine Age	hrs	Client Info		0	0	0	
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WEAR METALS       method       limit/base       current       history1       history2         orn       ppm       ASTM D5185m       >200       34       25       <1	Dil Changed		Client Info		Not Changd	Not Changd	Not Changd	
on       ppm       ASTM D5185m       >200       34       25       <1         Chromium       ppm       ASTM D5185m       >15       0       0       0         Bickel       ppm       ASTM D5185m       >15       0       0       0         Biker       ppm       ASTM D5185m       >25       <1	Sample Status				ABNORMAL	MARGINAL	NORMAL	
Drimmium       ppm       ASTM D5185m       >15       0       0       0         lickel       ppm       ASTM D5185m       >15       0       0       0         lickel       ppm       ASTM D5185m       >15       0       0       0         liker       ppm       ASTM D5185m       >25       <1	WEAR METALS		method	limit/base	current	history1	history2	
Bickel       ppm       ASTM D5185m       >15       0       0       0         itanium       ppm       ASTM D5185m       0       0       0         uluminum       ppm       ASTM D5185m       >25       <1	ron	ppm	ASTM D5185m	>200	34	25	<1	
intanium       ppm       ASTM D5185m       <1       0       0         iliver       ppm       ASTM D5185m       >25       <1	Chromium	ppm	ASTM D5185m	>15	0	0	0	
Silver       ppm       ASTM D5185m       0       0       0         Juminum       ppm       ASTM D5185m       >25       <1	Nickel	ppm	ASTM D5185m	>15	0	0	0	
Numinum   ppm   ASTM D5185m   >25   <1   0   <1     ead   ppm   ASTM D5185m   >100   <1	Fitanium	ppm	ASTM D5185m		<1	0	0	
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SiliconppmASTM D5185m>50652GodiumppmASTM D5185m40<1	Zinc	ppm	ASTM D5185m		8	0	0	
SodiumppmASTM D5185m40<1PotassiumppmASTM D5185m<>20571Vater%ASTM D6304<>0.20.0160.0200.027ppm WaterppmASTM D6304<>2000161.2204.5275.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2vcid Number (AN)mg KOH/gASTM D80450.250.520.360.44VISUALmethodlimit/basecurrenthistory1history2Vhite Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEObbrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLSand/Dirtscalar*VisualNORMLNORMLNORMLNORMLSand/Dirtscalar*VisualNORMLNORMLNORMLNORMLSand/Dirtscalar*VisualNORMLNORMLNORMLNORMLSand/Dirtscalar*VisualNORMLNORMLNORMLNORMLSand/Dirtscalar*VisualNORMLNORMLNORMLNORMLSand/Dirtscalar*VisualNORMLNOR	CONTAMINANTS		method	limit/base	current	history1	history2	
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Vater     %     ASTM D6304     >0.2     0.016     0.020     0.027       opm Water     ppm     ASTM D6304     >2000     161.2     204.5     275.3       FLUID DEGRADATION     method     limit/base     current     history1     history2       Acid Number (AN)     mg KOH/g     ASTM D8045     0.25     0.52     0.36     0.44       VISUAL     method     limit/base     current     history1     history2       Vhite Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Velidow Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Precipitate     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Solit     scalar     *Visual     NONE     NONE     NONE     NONE       Obbris     scalar     *Visual     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Oppearance     scalar     *Visual	Sodium	ppm	ASTM D5185m		4	0	<1	
ppm WaterppmASTM D6304>2000161.2204.5275.3FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.250.520.360.44VISUALmethodlimit/basecurrenthistory1history2Vhite Metalscalar*VisualNONENONENONENONEVelow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEObbrisscalar*VisualNONEMODERLIGHTSand/Dirtscalar*VisualNONENONENONEObbrisscalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSinulsified Waterscalar*Visual>0.2NEGNEG	Potassium	ppm	ASTM D5185m	>20	5	7	1	
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.250.520.360.44VISUALmethodlimit/basecurrenthistory1history2Vhite Metalscalar*VisualNONENONENONELIGHTYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONEMODERLIGHTSand/Dirtscalar*VisualNONENONENONESppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSmulsified Waterscalar*Visual>0.2NEGNEGNEG	Vater	%	ASTM D6304	>0.2	0.016	0.020	0.027	
Acid Number (AN)mg KOHgASTM D80450.250.520.360.44VISUALmethodlimit/basecurrenthistory1history2Vhite Metalscalar*VisualNONENONENONELIGHTYellow Metalscalar*VisualNONENONENONENONEYercipitatescalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONEMODERLIGHTSand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	opm Water	ppm	ASTM D6304	>2000	161.2	204.5	275.3	
VISUAL     method     limit/base     current     history1     history2       Vhite Metal     scalar     *Visual     NONE     NONE     NONE     NONE     LIGHT       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE     NONE       Precipitate     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Oebris     scalar     *Visual     NONE     MODER     MODER     LIGHT       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE       Sppearance     scalar     *Visual     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Smulsified Water     scalar     *Visual     >0.2     NEG     NEG     NEG	FLUID DEGRADA		method	limit/base	current	history1	history2	
White Metal     scalar     *Visual     NONE     NONE     NONE     LIGHT       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Precipitate     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Oebris     scalar     *Visual     NONE     MODER     MODER     LIGHT       Sand/Dirt     scalar     *Visual     NONE     MODER     NONE     NONE       Oppearance     scalar     *Visual     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML       Emulsified Water     scalar     *Visual     >0.2     NEG     NEG     NEG	Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.52	0.36	0.44	
Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Precipitate     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     MODER     MODER     LIGHT       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML       Emulsified Water     scalar     *Visual     >0.2     NEG     NEG     NEG	VISUAL		method	limit/base	current	history1	history2	
Precipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONEMODERMODERLIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT	
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONEMODERMODERLIGHTSand/Dirtscalar*VisualNONENONENONENONENoppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLImulsified Waterscalar*Visual>0.2NEGNEG	ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Debrisscalar*VisualNONEMODERMODERLIGHTGand/Dirtscalar*VisualNONENONENONENONEwppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLScalar*VisualNORMLNORMLNORMLNORMLMulsified Waterscalar*Visual>0.2NEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Debris	scalar	*Visual	NONE		A MODER	LIGHT	
Normal       scalar       *Visual       NORML       NORML       NORML       NORML       NORML         Immulsified Water       scalar       *Visual       >0.2       NEG       NEG       NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
mulsified Water scalar *Visual >0.2 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML	
	Ddor	scalar	*Visual	NORML	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG	
	Free Water	scalar			NEG	Subwittinged By:	NICKNEGJHAR	

Sample Rating Trend

**VIS DEBRIS** 



# **OIL ANALYSIS REPORT**



Submitted By: NICK FLUHART

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