

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

### NORMAL

#### 356-315-30 GEARBOX EAST CHIP SLICER (S/N NB01130-356.XX315) Component Gearbox Fluid

ROYAL PURPLE SYNERGY 140/460 (20 GAL)

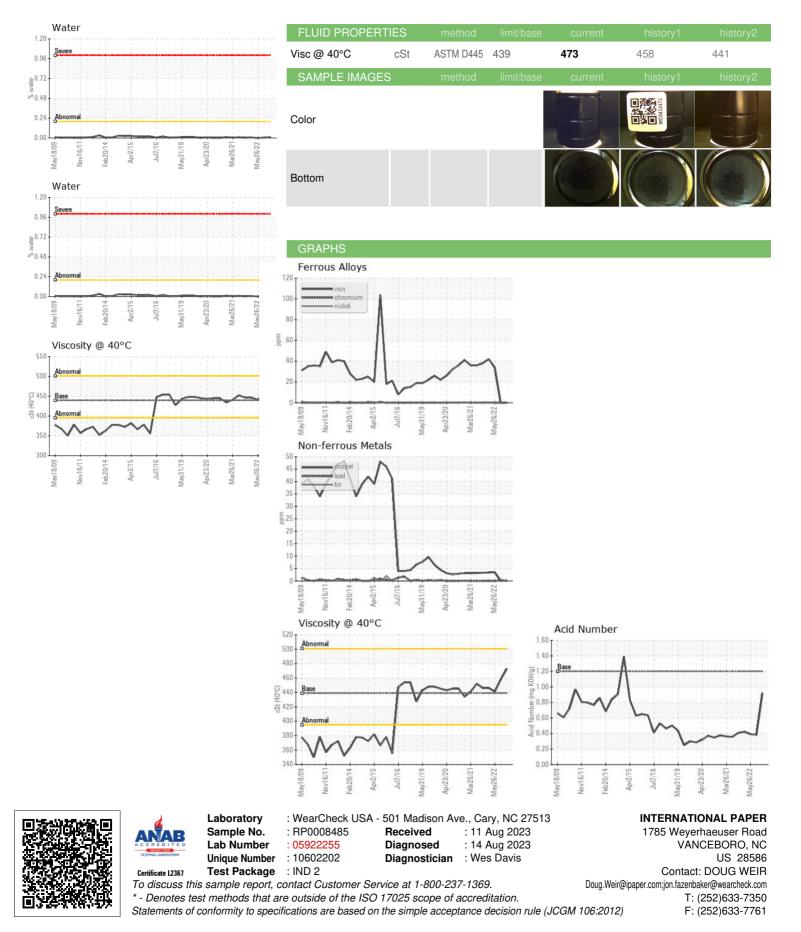


#### v2009 Nov2011 Feb2014 Ap/2015 Jul/2016 May/2019 May/2020 May/2021 May/2023

Basemple Date   Client Info   09 Aug 2023   08 Mar 2023   28 May 2022     War   Component wear rates are normal.   01 Age   mths   Client Info   0   0   0     There is no indication of any contamination in the oil.   There is no indication of any contamination in the oil.   Sample Status   Client Info   NA   NA   NA     There is no indication of any contamination in the oil.   Sample Status   Client Info   NA   NA   NA   NA     There is no indication of the oil is suitable for further service.   Mtexine App   Attempte Attr 2023   Client Info   NA   NA   NA     Component App   Stratus   Term information   NA   NA   NA   NA     The oil is suitable for further service.   Mtexine App   Mtexine App   Stratus   Client Info   O   -1   O   -1   O   -1   O   -1   O   -1   O   Client Info   Mtexine App   Mtexine App <t< th=""><th>DIAGNOSIS</th><th>SAMPLE INFORM</th><th>NATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	DIAGNOSIS	SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Water   Matering Age   mits   Client Info   0   0   0     All component wear rates are normal.   Contamination   NA   NA   NA   NA     Thare is no indication of any contamination in the oil   Sample Status   I   NOTMAL   NORMAL   N	Recommendation	Sample Number		Client Info		RP0008485	WC0432472	WC0432509
All component wear rates are normal. Oil Age miths Cilent Indo 0 0 0   Contamination There is no indication of any contamination in the dil. Sample Status Cilent Indo NA NA NA   Fluid Condition The AN level is acceptable for further service. Imn ppin ASTM D658m 200 <1 0 34   Chromium ppin ASTM D658m >200 <1 0 34   Chromium ppin ASTM D658m >15 0 0 0   Nickel ppin ASTM D658m >10 <1 0 34   Chromium ppin ASTM D658m >10 0 <1 0 34   Chromium ppin ASTM D658m >10 0 <1 0 34   Chromium ppin ASTM D658m >10 0 <1 0 34   Chromium ppin ASTM D658m >10 <1 0 34 34   Chromium ppin ASTM D658m <20 <1 0 34 34   Chromium ppin ASTM D658m <10 0	Resample at the next service interval to monitor.	Sample Date		Client Info		09 Aug 2023	08 Mar 2023	26 May 2022
All component wear rates are normal. Oil Age mthe Client Into O O O   Contamination There is no indication of any contamination in the oil. Sample Status Client Into NA NA NA   Fluid Condition The AN level is acceptable for further service. The Max Park Mathematication of the oil is suitable for further service. NetWalk NorMall NORMAL <th>Wear</th> <th>Machine Age</th> <th>mths</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Wear	Machine Age	mths	Client Info		0	0	0
Sample Status   NORMAL   NORMAL   NORMAL   NORMAL     Dire is no indication of any contamination in the oil.   Sample Status   method   lumbbase   current   Natory1   Natory2     The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.   method   method   lumbbase   current   Natory2   0	All component wear rates are normal.	Oil Age	mths	Client Info		0	0	0
Sample Status   NORMAL   NORMAL   NORMAL   NORMAL     Fuid Condition   Fuid Condition   Imm   Imm <th>Contamination</th> <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>N/A</th> <th>N/A</th>	Contamination	Oil Changed		Client Info		N/A	N/A	N/A
Oil. WEAR METALS method Init/basis current Init/ord/1 Init/ord/2   Fuid Condition of the oil is suitable for further service. Im ppm ASTM 0518m >200 <1 0 34   Nake ppm ASTM 0518m >15 0 0 0   Nickel ppm ASTM 0518m >15 0 0 0   Nickel ppm ASTM 0518m >100 0 <1 0 <1 0 <1 0		Sample Status				NORMAL	NORMAL	NORMAL
Fluid Condition iron ppn ASTM DS185m >200 <1 0 34   Tork AI level is soutable for further service. iron ppm ASTM DS185m >15 0 0 0   Nickel ppm ASTM DS185m >15 0 0 0 0   Nickel ppm ASTM DS185m >15 0 0 0 0   Silver ppm ASTM DS185m >20 <1 0 0 0   Auminum ppm ASTM DS185m >200 <1 0 0 0   Copper ppm ASTM DS185m >200 <1 0 0 0   Cadminum ppm ASTM DS185m >200 <1 0 0 0   Cadminum ppm ASTM DS185m >200 <1 0 <th>oil.</th> <th>WEAR METALS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	oil.	WEAR METALS		method	limit/base	current	history1	history2
Inter An Weak is addepiate of instands inter-   Condition of the oil is suitable for further service.   Condition of the oil is suitable for furthe	Fluid Condition		nnm					
Nickel   ppm   ASTM 0515m   >15   0   0   0     Titanum   ppm   ASTM 0515m   0   <1	The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.							
Titanium   ppm   ASTM 0515s   C   C   0   <1   0   <1     Aluminum   ppm   ASTM 0515s   >25   2   <1								
SilverppmASTN 05185n<					>15			
Aluminum   ppm   ASTM 0585m   >>25   2   <1   <1     Lead   ppm   ASTM 0585m   >>200   <1								
Lead   ppm   ASTM D5185m   >100   0   <1   0     Copper   ppm   ASTM D5185m   >25   0   <1					<u>\</u> 25			
CopperppmASTM DS185m>220<104TinppmASTM DS185m>250<1								
TinppmASTM D5185m>250<10VanadiumppmASTM D5185m<1								
VanadiumppmASTM D586m<1<10CadmiumppmASTM D586m<1								
CadmiumppmASTM D5185m<100ADDITIVESmethodlimit/basecurrenthistory2BoronppmASTM D5185m002BariumppmASTM D5185m000MolybdenumppmASTM D5185m000MagnesiumppmASTM D5185m<1					~			
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m002BariumppmASTM D5185m000MolybdenumppmASTM D5185m000MarganeseppmASTM D5185m1<								
BoronppmASTM D5185m002BariumppmASTM D5185m0000MolyddenumppmASTM D5185m0000MagnesiumppmASTM D5185m0<1<1<1<1MagnesiumppmASTM D5185m<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1			μμιι					
BariumppmASTM D5185m000MolyddenumppmASTM D5185m000ManganeseppmASTM D5185m<		ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m0000ManganesseppmASTM D5185m<1		Boron	ppm	ASTM D5185m		0	0	2
MarganeseppmASTM D5165m<1<1<1<1MagnesiumppmASTM D5165m<1		Barium	ppm	ASTM D5185m		0	0	0
MagnesiumppmASTM D5185m550CalciumppmASTM D5185mPC2024PhosphorusppmASTM D5185m2004185483ZincppmASTM D5185m20281515<		Molybdenum	ppm	ASTM D5185m		0	0	0
CalciumppmASTM D5185m2024PhosphorusppmASTM D5185m2004185483ZincppmASTM D5185m281515<1		Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ZincppmASTM D5185m2004185483ZincppmASTM D5185m281515<1		Magnesium	ppm	ASTM D5185m		<1	55	0
ZincppmASTM D5185m281515<1CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>504214SodiumppmASTM D5185m>20000PotassiumppmASTM D5185m>20000Water%ASTM D6304>.0.20.0090.0060.001ppm WaterppmASTM D6304>.20098.069.20.001FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HigASTM D80451.20.920.380.39VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORML		Calcium	ppm	ASTM D5185m		2	0	24
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>504214SodiumppmASTM D5185m>20000PotassiumppmASTM D5185m>20000Water%ASTM D50304>0.20.0090.0060.00ppm WaterppmASTM D6304>200098.069.20.00ptm WaterppmASTM D6304>200098.069.20.00FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80451.20.920.380.39VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONENONENONEAdd/Dirtscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLAcid Numberscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORML </td <th></th> <td>Phosphorus</td> <td>ppm</td> <td>ASTM D5185m</td> <td>200</td> <th>418</th> <td>54</td> <td>83</td>		Phosphorus	ppm	ASTM D5185m	200	418	54	83
SiliconppmASTM D5185m>504214SodiumppmASTM D5185m000PotassiumppmASTM D5185m>200000Water%ASTM D6304>0.20.0090.0060.000ppm WaterppmASTM D6304>200098.069.20.00FLUID DEGRAD>TIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80451.20.920.380.39VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORML		Zinc	ppm	ASTM D5185m		28	1515	<1
SodiumppmASTM D5185m<100PotassiumppmASTM D5185m>20000Water%ASTM D6304>0.20.0090.0060.00ppm WaterppmASTM D6304>200098.069.20.00FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80451.20.920.380.39VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESittscalar*VisualNONENONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORML		CONTAMINANTS		method	limit/base	current	history1	history2
SodiumppmASTM D5185m<100PotassiumppmASTM D5185m>20000Water%ASTM D6304>0.20.0090.0060.00ppm WaterppmASTM D6304>200098.069.20.00FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80451.20.920.380.39VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESittscalar*VisualNONENONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORML		Silicon	maa	ASTM D5185m	>50	4	2	14
PotassiumppmASTM D5185>20000Water%ASTM D6304>0.20.0090.0060.00ppm WaterppmASTM D6304>200098.069.20.00FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80451.20.920.380.39VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNotscalar*VisualNORMLNORMLNORMLNORML								
Water%ASTM D6304>0.20.0090.0060.00ppm WaterppmASTM D6304>200098.069.20.00FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80451.20.920.380.39VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORENONENONENONEOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG					>20			
ppm WaterppmASTM D6304>200098.069.20.00FLUID DEGRAD×TIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80451.20.920.380.39VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNEG		Water					0.006	0.00
Acid Number (AN)mg KOHgASTM D80451.20.920.380.39VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG		ppm Water		ASTM D6304	>2000			
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG		FLUID DEGRADA	TION	method	limit/base	current	history1	history2
White Metalscalar*VisualNONENONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONENONESiltscalar*VisualNONENONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGNEG		Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	0.92	0.38	0.39
Yellow Metalscalar*VisualNONENO		VISUAL		method	limit/base	current	history1	history2
Yellow Metalscalar*VisualNONENO		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG								
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Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG								
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Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG								
Emulsified Water scalar *Visual >0.2 NEG NEG NEG								
	Report Id: WEYNEW [WUSCAR] 05922255 (Generated: 08/14/2023 0			*Visual				



# **OIL ANALYSIS REPORT**



Contact/Location: DOUG WEIR - WEYNEW