

OIL ANALYSIS REPORT





TOLE_U3 TOLE_U3_M3 Component **Drive End Bearing**

Flui **ROYAL PURPLE SYNFILM GT 32 (4 QTS)**

DIAGNOSIS

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

Elemental level of silicon (Si) above normal. The water content is negligible.

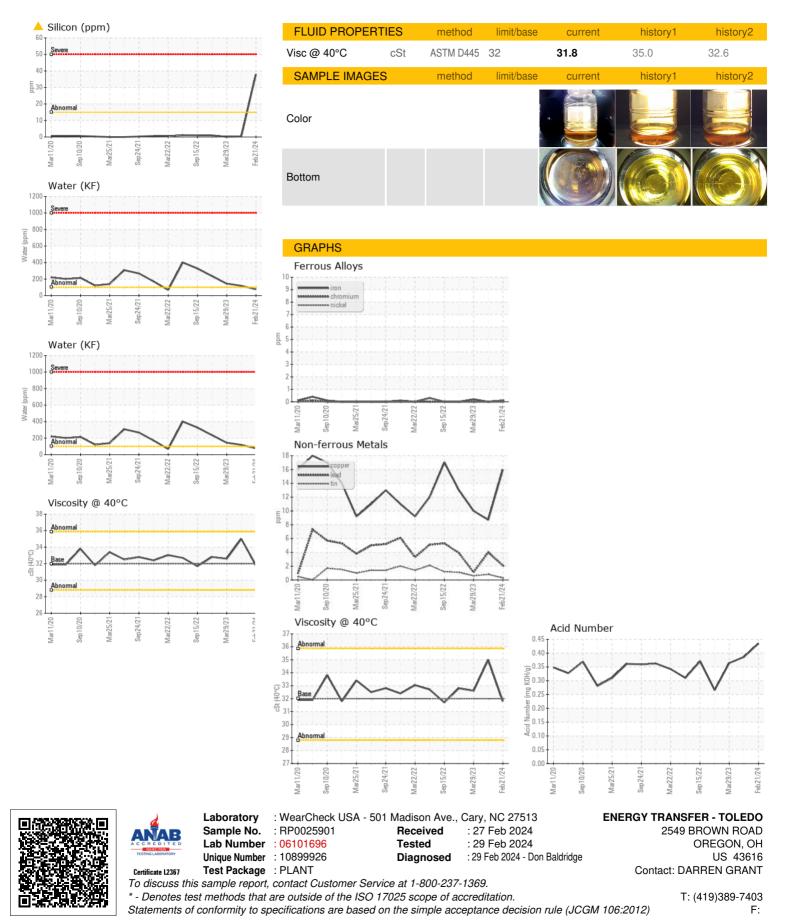
Fluid Condition

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

Machine AgehrsClient Info000Oil AgehrsClient Info0000Oil ChangedClient InfoN/AN/AN/AN/ASample StatusIImit/basecurrenthistory1history2IronppmASTM D5165m>2000<1ChromiumppmASTM D5165m>20000NickelppmASTM D5165m>20000SilverppmASTM D5165m0<100SilverppmASTM D5165m>200<1<1LeadppmASTM D5165m>20241CopperppmASTM D5165m>20241VanadiumppmASTM D5165m>20241VanadiumppmASTM D5165m>20241BoronppmASTM D5165m20241ADDITIVESmethodImit/basecurrenthistory1history2BoronppmASTM D5165m20000MagneseuppmASTM D5165m946882CalciumppmASTM D5165m946882CalciumppmASTM D5165m20000MagneseuppmASTM D5165m20002PhosphorusppmASTM D5165m200 <t< th=""><th>SAMPLE INFORM</th><th>IATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample DateClient Info21 Feb 202406 Jun 202329 Mar 2023Machine AgehrsClient Info000Oil AgehrsClient Info000Oil ChangedClient Info0N/AN/AN/ASample StatusImagecurrentHistory1History1History2IronppmASTM D5185m>2000<1ChromiumppmASTM D5185m>20000NickelppmASTM D5185m>20000SilverppmASTM D5185m>200<1<1CopperppmASTM D5185m>202411CopperppmASTM D5185m>202411CopperppmASTM D5185m>202411CopperppmASTM D5185m>202411AdminumppmASTM D5185m>202411CopperppmASTM D5185m>202169101TinppmASTM D5185m>20216001ADDITIVESmethodImitbosecurrenthistory1history2BoronppmASTM D5185m00011MagnesiumppmASTM D5185m20021MargensiumppmASTM D5185	Sample Number		Client Info		RP0025901	RP0025456	RP0025391
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Oil Changed Client Info N/A N/A N/A N/A Sample Status Image of the status Method Imil/base current Mistory1 Mistory2 WEAR METALS method Imil/base current Mistory1 Mistory2 Iron ppm ASTM D5185m >20 0 0 <1 Chromium ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >20 0 <1 0 Aluminum ppm ASTM D5185m >20 0 <1 <1 Lead ppm ASTM D5185m >20 2 4 1 Copper ppm ASTM D5185m >20 2 4 1 Adminum ppm ASTM D5185m >20 2 4 1 Copper ppm ASTM D5185m >20 2 4 1 Adminum ppm ASTM D5185m >20 2 4 1 Roron ppm ASTM D5185m >20 2 1 1 Adminum ppm ASTM D5185m >0 0 0 Adminum ppm ASTM D5	Machine Age	hrs	Client Info		0	0	0
Oil ChangedClient InfoN/AN/AN/AN/ASample StatusIIIABNORMALNORMALNORMALWEAR METALSmethodlimil/basecurrenthistory1history2IronppmASTM D5185>20001ChromiumppmASTM D5185>200000NickelppmASTM D5185200000SilverppmASTM D518520011LeadppmASTM D5185>201611CopperppmASTM D5185>201611CadmiumppmASTM D5185>00011AdmiumppmASTM D51850000011	Oil Age	hrs	Client Info		0	0	0
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Iron ppm ASTM D5185m >20 0 0 <1	Sample Status				ABNORMAL	NORMAL	NORMAL
Dromium ppm ASTM D5185m >20 <1	WEAR METALS		method	limit/base	current	history1	history2
NickelppmASTM D5185m>20000TitaniumppmASTM D5185m00<10SilverppmASTM D5185m200<1<1LeadppmASTM D5185m>20241CopperppmASTM D5185m>20<16910TinppmASTM D5185m>20<1<1<1VanadiumppmASTM D5185m>20<1<1<1CadmiumppmASTM D5185m000<1ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0000MagnaseneppmASTM D5185m0000MagnasiumppmASTM D5185m0000MagnasenumppmASTM D5185m0000MagnasiumppmASTM D5185m<1452CalciumppmASTM D5185m<10000SiliconppmASTM D5185m>200000PotasiumppmASTM D5185m>200000SodiumppmASTM D5185m>200000PotasiumppmASTM D5185m>200000VisualNORNORENORENORENORENORE	Iron	ppm	ASTM D5185m	>20	0	0	<1
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LeadppmASTM D5185m>20241CopperppmASTM D5185m>2016910TinppmASTM D5185m>20<1<1<1VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m000<1ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0000BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0000MagnesseppmASTM D5185m94688222CalciumppmASTM D5185m5022PhosphorusppmASTM D5185m<1452ZincppmASTM D5185m1538<1<1SodiumppmASTM D5185m>20000Water%ASTM D6304>20.0070.0110.014ppm WaterppmASTM D6304>20.0070.0110.014ppm WaterppmASTM D6304>20.03860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar'VisualNONENONENONENONEPrecipitatescalar'VisualNONENONENONENONE <tr< th=""><th>Silver</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th>0</th></tr<>	Silver	ppm	ASTM D5185m		0	0	0
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TinppmASTM D5185m>20<1	Lead	ppm	ASTM D5185m	>20	2	4	1
TinppmASTM D5185m>20<1	Copper	ppm	ASTM D5185m	>20	16	9	10
CadmiumppmASTM D5185m00<1		ppm	ASTM D5185m	>20	<1	<1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 94 68 82 Calcium ppm ASTM D5185m 94 68 82 Zinc ppm ASTM D5185m 0 0 3 Zinc ppm ASTM D5185m 0 0 3 Solicon ppm ASTM D5185m >15 38 <1 <1 Sodium ppm ASTM D5185m >20 0 0 0 Sodium ppm ASTM D5185m >20 0.007 0.011 0.0	Vanadium	ppm	ASTM D5185m		0	0	0
BoronppmASTM D5185m000BariumppmASTM D5185m000MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m0<10<1MagnesiumppmASTM D5185m946882CalciumppmASTM D5185m946882CalciumppmASTM D5185m502PhosphorusppmASTM D5185m<145ZincppmASTM D5185m<145ZincppmASTM D5185m<003CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20000Water%ASTM D5185m>20000Water%ASTM D6304>20.0070.0110.014ppm WaterppmASTM D80450.4350.3860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYelow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESodu/Dirtscalar*VisualNONENONENONE <th>Cadmium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th><1</th>	Cadmium	ppm	ASTM D5185m		0	0	<1
BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0000ManganeseppmASTM D5185m946882CalciumppmASTM D5185m946882CalciumppmASTM D5185m946882CalciumppmASTM D5185m946882CalciumppmASTM D5185m502PhosphorusppmASTM D5185m<145ZincppmASTM D5185m003CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>1538<1<1PotassiumppmASTM D5185m>20000Water%ASTM D6304>20.0070.0110.014ppm WaterppmASTM D80450.4350.3860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar	ADDITIVES		method	limit/base	current	history1	history2
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ManganeseppmASTM D5185m<1	Barium	ppm	ASTM D5185m		0	0	0
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PhosphorusppmASTM D5185m<1	Magnesium	ppm	ASTM D5185m		94	68	82
ZincppmASTM D5185m003CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>1538<1<1SodiumppmASTM D5185m0<11PotassiumppmASTM D5185m>20000Water%ASTM D5185m>200.0070.0110.014ppmASTM D6304>20.0070.0110.014ppm WaterppmASTM D6304>20.0070.0110.014ppm WaterppmASTM D6304>20.0070.0110.014ppm WaterppmASTM D6304>20.0070.0110.014ppm WaterppmASTM D6304>20.0070.0110.014ppm WaterppmASTM D80450.4350.3860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAstad/Dirtscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar<	Calcium	ppm	ASTM D5185m		5	0	2
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SiliconppmASTM D5185m>15A 38<1	Zinc	ppm	ASTM D5185m		0	0	3
SodiumppmASTM D5185mO<1	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20000Water%ASTM D6304>20.0070.0110.014ppm WaterppmASTM D6304>276119.1143.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.4350.3860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLRemulsified Waterscalar*Visual>2NEGNEG	Silicon	ppm	ASTM D5185m	>15	A 38	<1	<1
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FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.4350.3860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEGNEG	Water	%	ASTM D6304	>2	0.007	0.011	0.014
Acid Number (AN)mg KOH/gASTM D80450.4350.3860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEGNEG	ppm Water	ppm	ASTM D6304		76	119.1	143.9
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEGNEG	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEG	Acid Number (AN)	mg KOH/g	ASTM D8045		0.435	0.386	0.364
Yellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEG	VISUAL		method	limit/base	current	history1	history2
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Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEG	Debris	scalar		NONE	NONE	NONE	LIGHT
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >2 NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >2 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG Switchitted By: JONEBLAZEY	Emulsified Water	scalar	*Visual	>2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	SWEGitted B	y: JONEBLAZEY



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Submitted By: JOE BLAZEY

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