

# **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.

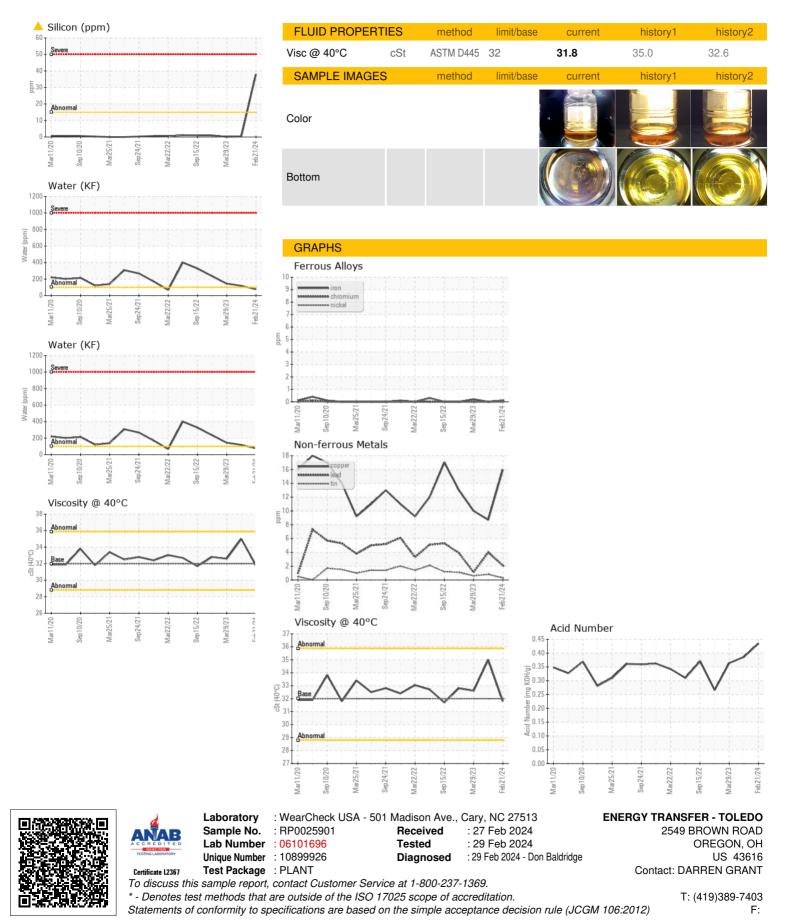
#### Fluid Condition

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
Oil Age hrs Client Info 0 0 0   Oil Changed Client Info N/A N/A N/A N/A   Sample Status Imathod Imathod Imathod NoRMAL NORMAL NORMAL   WEAR METALS method Imit/base current history! history!   Iron ppm ASTM D5185m >20 0 0 <1   Chromium ppm ASTM D5185m >20 0 0 0   Nickel ppm ASTM D5185m >20 0 <1 <1   Silver ppm ASTM D5185m >20 0 <1 <1   Capper ppm ASTM D5185m >20 16 9 10   Tin ppm ASTM D5185m >20 2 4 1   Capper ppm ASTM D5185m >20 2 4 1   Anadium ppm ASTM D5185m >20 2 4 1   Carmium ppm ASTM D5185m >20 2 4 1   Magnesium ppm ASTM D5185m >20 2 1 1   Maddium ppm ASTM D5185m <	Sample Date		Client Info		21 Feb 2024	06 Jun 2023	29 Mar 2023
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
WEAR METALS     method     limit/base     current     history1     history2       Iron     ppm     ASTM D5185m     >20     0     0     <1       Chromium     ppm     ASTM D5185m     >20     0     0     0       Nickel     ppm     ASTM D5185m     20     0     <1     0       Silver     ppm     ASTM D5185m     20     0     <1     0       Auminum     ppm     ASTM D5185m     >20     2     4     1       Copper     ppm     ASTM D5185m     >20     2     4     1       Copper     ppm     ASTM D5185m     >20     <1     <1     <1       Vanadium     ppm     ASTM D5185m     >20     <1     <1     <1       Adminum     ppm     ASTM D5185m     >20     <1     <1     <1     <1       Adminum     ppm     ASTM D5185m     0     0     0     0     0       Boron     ppm     ASTM D5185m     0	Oil Changed		Client Info		N/A	N/A	N/A
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
Titanium     ppm     ASTM D5185m     0     <1	Chromium	ppm	ASTM D5185m	>20	<1	0	0
SilverppmASTM D5185m000AluminumppmASTM D5185m>200<1<1LeadppmASTM D5185m>20241CopperppmASTM D5185m>20241TinppmASTM D5185m>20<1<1<1VanadiumppmASTM D5185m>20<1<1<1VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m0000BoronppmASTM D5185m0000MaganeseppmASTM D5185m0000MaganeseppmASTM D5185m0000MaganeseppmASTM D5185m5022PhosphorusppmASTM D5185m5022PhosphorusppmASTM D5185m0000SiliconppmASTM D5185m20000Vater%ASTM D5185m20000Vater%ASTM D5185m200.0070.0110.014ppmASTM D5185m200.0070.0110.014PotassiumppmASTM D5185m200.0070.0110.014PotassiumppmASTM D5185m200.0070.0110.014ppmASTM D5185m200.0	Nickel	ppm	ASTM D5185m	>20	0	0	0
Auminum   ppm   ASTM D5185m   >20   0   <1	Titanium	ppm	ASTM D5185m		0	<1	0
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
Copper     ppm     ASTM D5185m     >20     16     9     10       Tin     ppm     ASTM D5185m     >20     <1     <1     <1       Vanadium     ppm     ASTM D5185m     >20     <1     <1     <1       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     0     0     0     0       Manganese     ppm     ASTM D5185m     0     0     0     0       Manganese     ppm     ASTM D5185m     0     <1     0     <1       Manganese     ppm     ASTM D5185m     <5     0     2     2       Calcium     ppm     ASTM D5185m     <5     0     2     2       Calcium     ppm     ASTM D5185m     <5     0     3     2       Calcium     ppm     ASTM D5185m     <1     4     5     2       Silicon     ppm     ASTM D5185m     20     0     0	Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
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>&lt;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
MagnesiumppmASTM D5185m946882CalciumppmASTM D5185m502PhosphorusppmASTM D5185m<145ZincppmASTM D5185m003CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>1538<1<1SodiumppmASTM D5185m>20000Water%ASTM D5185m>20000Water%ASTM D5185m>200.0070.0110.014ppmASTM D5185m>200.0070.0110.014ppm WaterppmASTM D6304>20.0070.0110.014ppm WaterppmASTM D8045Currenthistory1history2Acid Number (AN)mg K0HgASTM D80450.4350.3860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONE <th>Molybdenum</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Molybdenum	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	<b>A</b> 38	<1	<1
Water%ASTM D6304>20.0070.0110.014ppm WaterppmASTM D630476119.1143.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.4350.3860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEGNEG	Sodium	ppm	ASTM D5185m		0	<1	1
ppm WaterppmASTM D630476119.1143.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.4350.3860.364VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEGNEG	Potassium	ppm	ASTM D5185m	>20	0	0	0
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
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONELIGHTSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>2NEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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

Page 2 of 2