

OIL ANALYSIS REPORT





Machine Id

CMAR_U3 CMAR_U3_M3

Non-Drive End Bearing Fluid ROYAL PURPLE SYNFILM GT 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

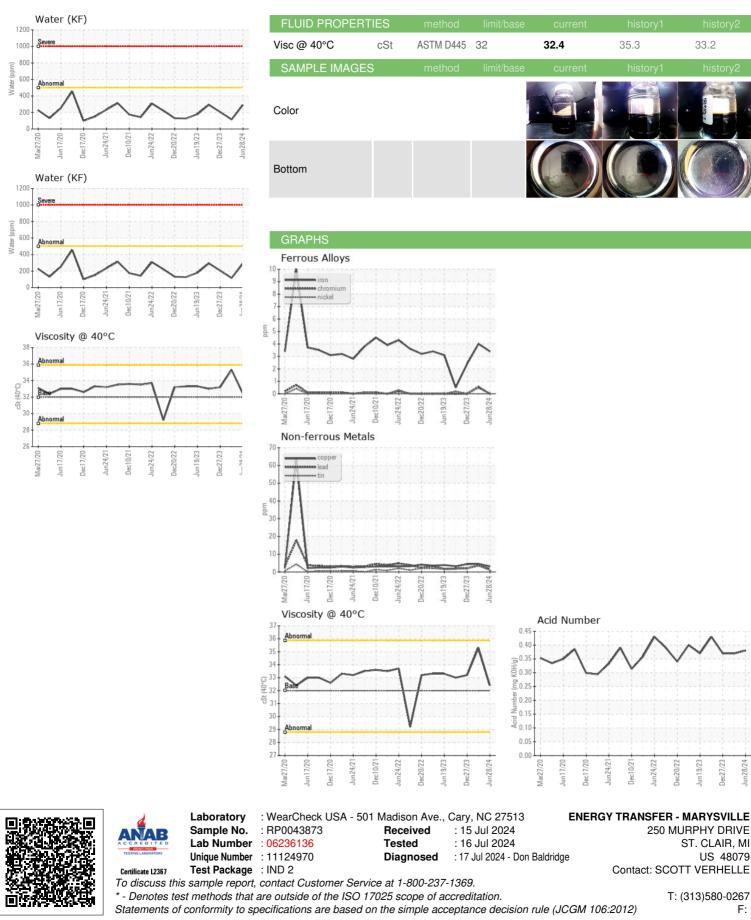
Fluid Condition

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

Sample Number Client Info RP0043873 RP0021031 RP0021291 Sample Date Client Info 28 Jun 2024 20 Mar 2024 27 Dec 2023 Machine Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A N/A Sample Status method Init/Dase current Nicko/1 NORMAL NORMAL WEAR METALS method Init/Dase current Nicko/1 0 Tranium ppm ASTM D5185m >20 3 4 2 Tatanium ppm ASTM D5185m >20 21 0 0 Rend ppm ASTM D5185m >20 21 4 2 Capper ppm ASTM D5185m >20 21 4 2 Capper ppm ASTM D5185m >20 21 4 2	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185n >20 3 4 2 Chromium ppm ASTM 05185n >20 0 <1 0 Nickel ppm ASTM 05185n >20 0 <1 0 Lead ppm ASTM 05185n >20 2 4 2 Copper ppm ASTM 05185n >20 2 4 2 Vanadium ppm ASTM 05185n >20 2 1 <1 0 Ead ppm ASTM 05185n >20 <1 4 2 2 Astm 05185n >20 <1 <1 0 2 3	Sample Number		Client Info		RP0043873	RP0029037	RP0021291
Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 history2 Iron ppm ASTM 05185n >20 3 4 2 Chromium ppm ASTM 05185n >20 0 <1 0 Nickel ppm ASTM 05185n >20 0 <1 0 Silver ppm ASTM 05185n >20 2 4 2 Copper ppm ASTM 05185n >20 2 4 2 Copper ppm ASTM 05185n >20 2 4 2 Cadmium ppm ASTM 05185n >20 2 1 0 ADDITVES method imit/base current history2 1 0 Barium ppm ASTM 05185n <1 1 0 1	Sample Date		Client Info		28 Jun 2024	20 Mar 2024	27 Dec 2023
Oli Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 history2 Iron ppm ASTM 05185n >20 3 4 2 Chromium ppm ASTM 05185n >20 0 <1	Machine Age	hrs	Client Info		0	0	0
Oli ChangedClient InfoN/AN/AN/AN/AN/ASample StatusIImitNORMALNORMALNORMALNORMALWEAR METALSnetImit/basecurrenthistory1history2IronppmASTM 05185>20342ChromiumppmASTM 05185>200-10NickelppmASTM 05185>200-10NickelppmASTM 05185>200-10AuminumppmASTM 05185>20-110LeadppmASTM 05185>20-142CopperppmASTM 05185>20-142CadmiumppmASTM 05185>20-142CadmiumppmASTM 05185>20-141CadmiumppmASTM 05185-20-141BaronppmASTM 05185-20-141BaronppmASTM 05185-20-1-10BariumppmASTM 05185-2109107107CalciumppmASTM 05185-2109107107CalciumppmASTM 05185-2109107107CalciumppmASTM 05185-2109107107CalciumppmASTM 05185-2109107101Calcium<	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 3 4 2 Chromium ppm ASTM D5185m >20 0 <1 0 Nickel ppm ASTM D5185m 20 0 <1 0 Silver ppm ASTM D5185m 20 2 4 2 Copper ppm ASTM D5185m >20 2 4 2 Copper ppm ASTM D5185m >20 3 5 4 Tin ppm ASTM D5185m >20 2 4 2 Vanadium ppm ASTM D5185m 20 3 5 4 Cadmium ppm ASTM D5185m 20 3 2 1 0 Barium ppm ASTM D5185m 21 3 2 3 2 Magnesium ppm ASTM D5185m 92 109<	Oil Changed		Client Info		N/A	N/A	N/A
Iron ppm ASTM D5185m >20 3 4 2 Chromium ppm ASTM D5185m >20 0 <1 0 Nickel ppm ASTM D5185m >20 0 <1 0 Silver ppm ASTM D5185m >20 0 <1 0 Auminum ppm ASTM D5185m >20 2 4 2 Copper ppm ASTM D5185m >20 2 4 2 2 Copper ppm ASTM D5185m >20 2 4 2 2 Copper ppm ASTM D5185m >20 <1 4 2 2 Cadmium ppm ASTM D5185m >20 <1 <1 0 1 1 0 ASTM D5185m >20 <1 4 6 5 3 2 1 0 1 <1 1 1 0 1 2 1 0 <th>Sample Status</th> <th></th> <th></th> <th></th> <th>NORMAL</th> <th>NORMAL</th> <th>NORMAL</th>	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >20 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >20 0 <1	Iron	ppm	ASTM D5185m	>20	3	4	2
Nickel ppm ASTM D5185m >20 0 <1	Chromium		ASTM D5185m	>20	0	<1	0
Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >20 <1 1 0 Lead ppm ASTM D5185m >20 2 4 2 Copper ppm ASTM D5185m >20 3 5 4 Tin ppm ASTM D5185m >20 <1 4 2 Vanadium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 <1 0 Marganese ppm ASTM D5185m 92 10.9 107 Calcium ppm ASTM D5185m 92 10.9 107 Calcium ppm ASTM D5185m 35 5.9 45 Zinc ppm ASTM D5185m 2.9 5.6 49 CONTAMINANTS	Nickel	ppm	ASTM D5185m	>20	0	<1	0
Atuminum ppm ASTM D5185m >20 <1	Titanium	ppm	ASTM D5185m		0	<1	<1
Lead ppm ASTM D5185m >20 2 4 2 Copper ppm ASTM D5185m >20 3 5 4 Tin ppm ASTM D5185m >20 <1 4 2 Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method imit/base current history1 history2 Boron ppm ASTM D5185m <1 <1 0 Barium ppm ASTM D5185m 2 3 2 Magnese ppm ASTM D5185m 92 109 107 Calcium ppm ASTM D5185m 35 59 45 Zinc ppm ASTM D5185m 29 56 49 CONTAMINANTS method Imit/base current history1 history2 Silicon ppm ASTM D5185m <th>Silver</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >20 3 5 4 Tin ppm ASTM D5185m >20 <1 4 2 Vanadium ppm ASTM D5185m >20 <1 4 2 Vanadium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 0 <1 Molybdenum ppm ASTM D5185m 0 <1 <1 0 Mangaese ppm ASTM D5185m 92 109 107 Calcium ppm ASTM D5185m 92 109 107 Calcium ppm ASTM D5185m 50 79 68 Phosphorus ppm ASTM D5185m 29 56 49 CONTAMINANTS method limit/base current history1 history2 Silicon ppm	Aluminum	ppm	ASTM D5185m	>20	<1	1	0
Tin ppm ASTM D5185m >20 <1	Lead	ppm	ASTM D5185m	>20	2	4	2
Vanadium ppm ASTM D5185m 0 <1	Copper		ASTM D5185m	>20	3	5	4
Cadmium ppm ASTM D5185m 0 <1	Tin	ppm	ASTM D5185m	>20	<1	4	2
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m<1<10BariumppmASTM D5185m0<1<10MolybdenumppmASTM D5185m465ManganeseppmASTM D5185m232MagnesiumppmASTM D5185m92109107CalciumppmASTM D5185m507968PhosphorusppmASTM D5185m555945ZincppmASTM D5185m295649CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m15<120SodiumppmASTM D5185m>15<120Vater%ASTM D5185m>20120Vater%ASTM D6304>500292115205FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2VisualNONENONENONENONENONENONEVellow Metalscalar*VisualNONENONENONENONEVisualNONENONENONENONENONENONENONESiltscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONE <t< th=""><th>Vanadium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th><1</th><th><1</th></t<>	Vanadium	ppm	ASTM D5185m		0	<1	<1
BoronppmASTM D5185m<1	Cadmium	ppm	ASTM D5185m		0	<1	0
BariumppmASTM D5185m0<1	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m465ManganeseppmASTM D5185m232MagnesiumppmASTM D5185m92109107CalciumppmASTM D5185m92109107CalciumppmASTM D5185m507968PhosphorusppmASTM D5185m355945ZincppmASTM D5185m295649CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15<120SodiumppmASTM D5185m>20120Vater%ASTM D5185m>20120WaterppmASTM D5185m>201.0290.0110.020ppm WaterppmASTM D6304>0.050.0290.0110.020ppm WaterppmASTM D80450.380.370.370.37VISUALmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2Siltscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESilt <th>Boron</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th><1</th> <th><1</th> <th>0</th>	Boron	ppm	ASTM D5185m		<1	<1	0
ManganeseppmASTM D5185m232MagnesiumppmASTM D5185m92109107CalciumppmASTM D5185m507968PhosphorusppmASTM D5185m355945ZincppmASTM D5185m295649CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15<120SodiumppmASTM D5185m>20120SodiumppmASTM D5185m>20120Vater%ASTM D5185m>200.0290.0110.020ppm WaterppmASTM D5185m>500292115205FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORML </th <th>Barium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th><1</th> <th><1</th>	Barium	ppm	ASTM D5185m		0	<1	<1
MagnesiumppmASTM D5185m92109107CalciumppmASTM D5185m507968PhosphorusppmASTM D5185m355945ZincppmASTM D5185m295649CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15<120SodiumppmASTM D5185m>20120SodiumppmASTM D5185m>20120Vater%ASTM D5185m>200.0290.0110.020ppm WaterppmASTM D6304>500292115205FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLAcid Numerscalar	Molybdenum	ppm	ASTM D5185m		4	6	5
CalciumppmASTM D5185m507968PhosphorusppmASTM D5185m355945ZincppmASTM D5185m295649CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15<120SodiumppmASTM D5185m>15<120SodiumppmASTM D5185m>20120Vater%ASTM D6304>0.050.0290.0110.020ppm WaterppmASTM D6304>500292115205FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAcid Numescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNONENONENONENONESiltscalar*VisualNORMLNORML <t< th=""><th>Manganese</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>2</th><th>3</th><th>2</th></t<>	Manganese	ppm	ASTM D5185m		2	3	2
PhosphorusppmASTM D5185m355945ZincppmASTM D5185m295649CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15<120SodiumppmASTM D5185m>15<120SodiumppmASTM D5185m>20120Vater%ASTM D5185m>20120Water%ASTM D6304>0.050.0290.0110.020ppm WaterppmASTM D6304>500292115205FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLCorscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*Visual <t< th=""><th>Magnesium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>92</th><th>109</th><th>107</th></t<>	Magnesium	ppm	ASTM D5185m		92	109	107
ZincppmASTM D5185m295649CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>15<120SodiumppmASTM D5185m<>20120PotassiumppmASTM D5185m<>20120Water%ASTM D6304>0.050.0290.0110.020ppm WaterppmASTM D6304>500292115205FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORMLAcid Numerscalar*VisualNORMLNORMLNORMLNORMLAcid Numerscalar*VisualNORNORMLNORMLNORMLAci	Calcium	ppm	ASTM D5185m		50	79	68
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SiliconppmASTM D5185m>15<1	Zinc	ppm	ASTM D5185m		29	56	49
SodiumppmASTM D5185m4<1	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20120Water%ASTM D6304>0.050.0290.0110.020ppm WaterppmASTM D6304>500292115205FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGFree Waterscalar*VisualNORMLNEG	Silicon	ppm	ASTM D5185m	>15	<1	2	0
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ppm WaterppmASTM D6304>500292115205FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGNEG	Potassium	ppm	ASTM D5185m	>20	1	2	0
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGNEGFree Waterscalar*VisualNORMLNEGNEGNEG	Water	%	ASTM D6304	>0.05	0.029	0.011	0.020
Acid Number (AN)mg KOH/gASTM D80450.380.370.37VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGNEGFree Waterscalar*VisualNORMLNEGNEGNEG	ppm Water	ppm	ASTM D6304	>500	292	115	205
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White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNEG	Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	0.37	0.37
Yellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGNEGFree Waterscalar*VisualNEGNEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
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Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG	•						
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Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGNEGFree Waterscalar*VisualNEGNEGNEG							
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Free Water scalar *Visual NEG Ibmitted By: NATHAN HOLMES							
	· · · · · · - · ·			>0.05	-		
	Free Water	scalar	*Visual		NEG	DUNINEQPY. NA	



OIL ANALYSIS REPORT



T: (313)580-0267 F:

un19/23 CULCON

250 MURPHY DRIVE

ST. CLAIR, MI

US 48079

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