

OIL ANALYSIS REPORT

CHEATHAM ANNEX 1724 CRANE 1A Component

Gearbox

Fluic SHELL OMALA S4 WE 220 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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 Rating Trend

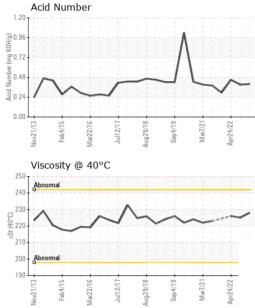


NORMAL

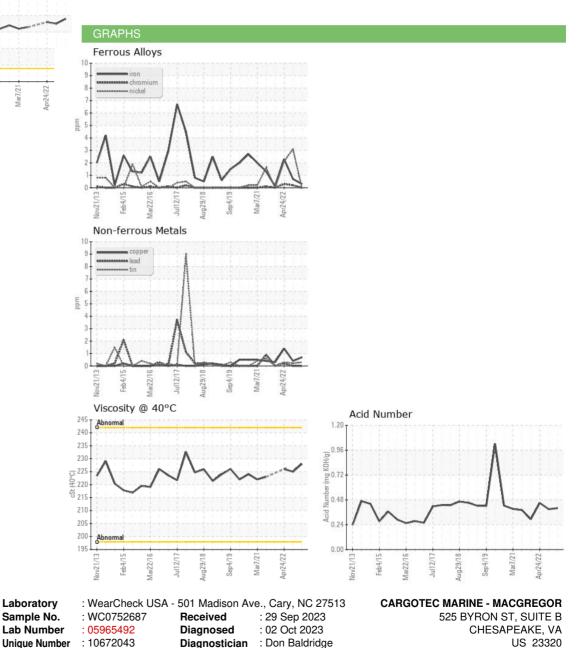
Sample Number Client Info WC0752687 S <th>SAMPLE INFORM</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM		method	limit/base	current	history1	history2
Sample DateClient InfoD1 Oct 202322 Jan 202324 Apr 2022Machine AgehrsClient Info000Oil AgehrsClient Info000Oil ChangedClient InfoN/AN/AN/ASample StatusImageImageN/AN/AN/AWEAR METALSmethodImit/basecurrenthistory1filterory2IronppmASTM 05185n>200<1<12ChromiumppmASTM 05185n>15032TitaniumppmASTM 05185n>150<1<1NickelppmASTM 05185n>1000<1CopperppmASTM 05185n>200<1<111InppmASTM 05185n>200<1<1<1AntimonyppmASTM 05185n>20<1<1<1NaadiumppmASTM 05185n>20<1<1<1Astm 05185n>5VanadiumppmASTM 05185n0<1<1<1Astm 05185n20<1<1<1<1<1Astm 05185n0<1<1<1<1<1Astm 05185n0<1<1<1<1<1Astm 05185n0<1<1<1<1<1Astm 05185n0<1<1<1<1<1				iiiiii/base			
Machine AgehrsClient Info000Oil AgeHrsClient InfoN/AN/AN/ASample StatusIInN/AN/AN/ASample StatusInInit/bascurrenthistory1history2IronppmASTM DS18m>200<1<12ChromiumppmASTM DS18m>150<1<1<1NickelppmASTM DS18m>150<100SilverppmASTM DS18m>200<1<100<1CapperppmASTM DS18m>200<1<11 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
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Oil ChangedClient InfoN/AN/AN/AN/ASample StatusImage StatusImage StatusImage StatusImage StatusNormALNormALNormALWEAR METALSmethodImil/basecurrentHistory1History2IronppmASTM D5185m>150<1<12ChromiumppmASTM D5185m>15032TitaniumppmASTM D5185m>15032AluminumppmASTM D5185m>1500000SilverppmASTM D5185m>255<13111 <th>•</th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th>÷</th>	•				-		÷
Sample Status method Imit/base current NoRMAL NORMAL NORMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185m >200 <1 <1 2 Chromium ppm ASTM 05185m >15 0 3 2 Nickel ppm ASTM 05185m >15 0 3 2 Titanium ppm ASTM 05185m >25 5 <1 0 Aluminum ppm ASTM 05185m >200 <1 <1 1 Copper ppm ASTM 05185m >25 <1 <1 <1 Antimony ppm ASTM 05185m >25 <1 <1 <1 Cadmium ppm ASTM 05185m 0 0 <1 <1 Cadmium ppm ASTM 05185m 0 0 0 3 Barium ppm ASTM 05185m 0 <t< th=""><th>-</th><th>hrs</th><th></th><th></th><th></th><th></th><th>•</th></t<>	-	hrs					•
WEAR METALS method limit/base current history1 history2 fron ppm ASTM D5165m >200 <1 <1 2 Chromium ppm ASTM D5165m >15 0 <1 <1 Nickel ppm ASTM D5165m >15 0 0 0 Silver ppm ASTM D5165m >25 5 <1 3 Lead ppm ASTM D5165m >200 <1 <1 1 Tin ppm ASTM D5165m >200 <1 <1 1 Tin ppm ASTM D5165m >200 <1 <1 1 Tin ppm ASTM D5165m >5 Vanadium ppm ASTM D5165m 0 0 <1 2 Copper ppm ASTM D5165m 0 0 <1 2 Cadmium ppm ASTM D5165m 0 0 <1	-		Client Info			,	
Iron ppm ASTM D5185n >2200 <1	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >15 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5186m >15 0 3 2 Titanium ppm ASTM D5186m 0 0 0 Silver ppm ASTM D5186m 25 5 <1 3 Aluminum ppm ASTM D5186m >200 <1 <1 3 Lead ppm ASTM D5186m >200 <1 <1 1 Tin ppm ASTM D5186m >25 <1 <1 <1 Antimony ppm ASTM D5186m >5 < Vanadium ppm ASTM D5186m 0 <1 <1 <1 Cadmium ppm ASTM D5186m 0 <1 <1 Barium ppm ASTM D5185m 0 0 <1 <1 <1 Maganese ppm ASTM D5185m 0 <1 <1 <1 Maganese ppm ASTM D5185m 0 <1 <1	Iron	ppm	ASTM D5185m	>200	<1	<1	2
Titanium ppm ASTM D5185m 0 -1 0 Silver ppm ASTM D5185m >25 5 <1 3 Lead ppm ASTM D5185m >200 <1 <1 1 Lead ppm ASTM D5185m >200 <1 <1 1 Copper ppm ASTM D5185m >25 <1 <1 1 Tin ppm ASTM D5185m >25 <1 <1 <1 Antimony ppm ASTM D5185m 0 0 <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 <1 Boron ppm ASTM D5185m 0 0 0 3 3 Barium ppm ASTM D5185m 0 0 0 0 0 Magaesee ppm ASTM D5185m 0 0 1 2 0 Sulfur ppm ASTM D5185m 507 374 </th <th>Chromium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>15</th> <th>0</th> <th><1</th> <th><1</th>	Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Silver ppm ASTM D5185m Q <1	Nickel	ppm	ASTM D5185m	>15	0	3	2
Aluminum ppm ASTM D5185m >25 5 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >100 0 Copper ppm ASTM D5185m >200 <1 <1 1 Tin ppm ASTM D5185m >25 <1 <1 <1 Antimony ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m 0 <11 <1 <1 Cadmium ppm ASTM D5185m 0 <10 <10 <10 ADDITVES method imit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 0 Magnesium ppm ASTM D5185m 0 <1 2 Phosphorus ppm ASTM D5185m 507 374 460 Zinc ppm ASTM D5185m 507 374 400 Sodium ppm ASTM D5185m 507 4 10 Sodium ppm ASTM	Silver	ppm	ASTM D5185m		0	<1	0
Copper ppm ASTM D5185m >200 <1	Aluminum	ppm	ASTM D5185m	>25	5	<1	3
Tin ppm ASTM D5185m >25 <1	Lead	ppm	ASTM D5185m	>100	0	0	<1
Antimony ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m 0 <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 3 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Magnese ppm ASTM D5185m 0 11 2 Phosphorus ppm ASTM D5185m 0 1 2 Phosphorus ppm ASTM D5185m 507 374 460 Zinc ppm ASTM D5185m 507 374 10 Solifur ppm ASTM D5185m >50 7 4 10 Solidum ppm ASTM D5185m >20 4 1 <th>Copper</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>200</th> <th><1</th> <th><1</th> <th>1</th>	Copper	ppm	ASTM D5185m	>200	<1	<1	1
VanadiumppmASTM D5185m0<1	Tin	ppm	ASTM D5185m	>25	<1	<1	<1
CadmiumppmASTM D5185m00<1	Antimony	ppm	ASTM D5185m	>5			
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m003BariumppmASTM D5185m0<10MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m0<1<1MagnesiumppmASTM D5185m4<10CalciumppmASTM D5185m4<10CalciumppmASTM D5185m507374460ZincppmASTM D5185m507374460SulfurppmASTM D5185m593759CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507410SodiumppmASTM D5185m>204<12PotassiumppmASTM D5185m>204<12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2VisualNONENONENONENONENONENONEVisualNONENONENONENONENONENONEVisualNONENONENONENONENONENONESiltscalar*VisualNONENONENONENONEVisualNONENONENONENONENONENONESiltscalar*VisualNONENONE <td< th=""><th>Vanadium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th><1</th><th><1</th></td<>	Vanadium	ppm	ASTM D5185m		0	<1	<1
BoronppmASTM D5185m003BariumppmASTM D5185m0-10MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m0-1<1MagnesiumppmASTM D5185m4-10CalciumppmASTM D5185m4-10CalciumppmASTM D5185m012PhosphorusppmASTM D5185m507374460ZincppmASTM D5185m593759SulfurppmASTM D5185m593759CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>204-12PotassiumppmASTM D5185m>204-12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80450.400.390.45VISUALmethodlimit/basecurrenthistory1history2VisualNONENONENONENONENONENONEVisualNONENONENONENONENONENONEVisualNONENONENONENONENONENONEVisualNONENONENONENONENONENONESiltscalar'VisualNONENONENONE <t< th=""><th>Cadmium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th><1</th></t<>	Cadmium	ppm	ASTM D5185m		0	0	<1
BariumppmASTM D5185m0<1	ADDITIVES		method	limit/base	current	history1	history2
BariumppmASTM D5185m0<1	Boron	ppm	ASTM D5185m		0	0	3
ManganeseppmASTM D5185m0<1	Barium	ppm	ASTM D5185m		0	<1	0
MagnesiumppmASTM D5185m4<1	Molybdenum	ppm	ASTM D5185m		0	0	0
IntegrotedamppmASTM D5185m012CalciumppmASTM D5185m507374460PhosphorusppmASTM D5185m507374460ZincppmASTM D5185m593759CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507410SodiumppmASTM D5185m>507410SodiumppmASTM D5185m>507410SodiumppmASTM D5185m>204<12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80450.400.390.45VISUALmethodlimit/basecurrenthistory1history2Vhite Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONEAONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORML<	Manganese	ppm	ASTM D5185m		0	<1	<1
PhosphorusppmASTM D5185m507374460ZincppmASTM D5185m020SulfurppmASTM D5185m593759CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507410SodiumppmASTM D5185m>507410SodiumppmASTM D5185m>204<12PotassiumppmASTM D5185m>204<12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg K0HgASTM D80450.400.390.45ViSUALmethodlimit/basecurrenthistory1history2Vhite Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAgpearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORML	Magnesium	ppm	ASTM D5185m		4	<1	0
ZincppmASTM D5185m020SulfurppmASTM D5185m593759CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507410SodiumppmASTM D5185m>507410SodiumppmASTM D5185m>507410PotassiumppmASTM D5185m>204<12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.400.390.45VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLCodrscalar*VisualNORMLNORMLNORMLNORMLCodrscalar*VisualNORMLNORMLNORMLNORML <tr <td="">NORML</tr>	Calcium	ppm	ASTM D5185m		0	1	2
SulfurppmASTM D5185m593759CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507410SodiumppmASTM D5185m>507410SodiumppmASTM D5185m>204<12PotassiumppmASTM D5185m>204<12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.400.390.45VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONESodiardscalar*VisualNONENONENONENONENONESodiard*VisualNONENONENONENONENONENONESodiard*VisualNONENONENONENONENONENONESodiard*VisualNONENONENONENONENONENONEGodorscalar*VisualNONENONENONENONENONEGodorscalar*VisualNORMLNORMLNORMLNORMLNORMLGodors	Phosphorus	ppm	ASTM D5185m		507	374	460
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SiliconppmASTM D5185m>507410SodiumppmASTM D5185m032PotassiumppmASTM D5185m>204<12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.400.390.45VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Sulfur	ppm	ASTM D5185m		59	37	59
SodiumppmASTM D5185m032PotassiumppmASTM D5185m>204<12FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.400.390.45VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	CONTAMINANTS	;	method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>204<1	Silicon	ppm	ASTM D5185m	>50	7	4	10
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.400.390.45VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Sodium	ppm	ASTM D5185m		0	3	2
Acid Number (AN)mg KOH/gASTM D80450.400.390.45VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Potassium	ppm	ASTM D5185m	>20	4	<1	2
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*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	0.39	0.45
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified 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*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.2 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG Subercitted By: TARE@ MAG	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	SNDET Gitted By	': TA RIØG MAGI



OIL ANALYSIS REPORT









 Certificate 12367
 Test Package
 : IND 2

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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