

# **OIL ANALYSIS REPORT**

# Sample Rating Trend







KAESER AS 30 7402398 (S/N 1580)

Compressor

KAESER SIGMA (OEM) M-460 (--- GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. 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         KCP55509             Sample Date         Client Info         08 Dec 2022             Machine Age         hrs         Client Info         6800             Oil Age         hrs         Client Info         6800             Oil Changed         Client Info         KorMad             WEAR METALS         Method         Imit/base         Curcent         History!            WEAR METALS         Method         Imit/base         Curcent             Nickel         ppm         ASTM D5165         >-3         0             Silver         ppm         ASTM D5165         >-10              Aluminum         ppm         ASTM D5165         >10         0             Copper         ppm         ASTM D5165         >10         0             Copper         ppm         ASTM D5165         >10         0             Sindorium         ppm         ASTM D	SAMPLE INFORM	<b>NATION</b>	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         6800             Oil Ghanged         Client Info         Changed             Sample Status         Imit/base         current         history1            WEAR METALS         method         Imit/base         current         history1            WEAR METALS         method         Imit/base         current         history1            Nickel         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >2         1             Aluminum         ppm         ASTM D5185m         >2         1             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         0              Adminum         ppm         ASTM D5185m         0         0             Copper         ppm         ASTM D5185m         0         0             Mad	Sample Number		Client Info		KCP55509		
Oil Age         Ins         Client Info         6800             Oil Changed         Client Info         Changed             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0             Nickel         ppm         ASTM D5185m         >30         0             Nickel         ppm         ASTM D5185m         >30         0             Aluminum         ppm         ASTM D5185m         >10              Auminum         ppm         ASTM D5185m         >10         0             Auminum         ppm         ASTM D5185m         >10         0             Auminum         ppm         ASTM D5185m         >10         0             Astm D5185m         0         0              Cadmium         ppm         ASTM D5185m         0         0	Sample Date		Client Info		08 Dec 2022		
Oil Changed Sample Status         Client Info         Changed NORMAL             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0             Chromium         ppm         ASTM D5185m         >3         0             Nickel         ppm         ASTM D5185m         >3         0             Aluminum         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             Lead         ppm         ASTM D5185m         >10         0	Machine Age	hrs	Client Info		6800		
Oil Changed Sample Status         Client Info         Changed NORMAL             WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0             Chromium         ppm         ASTM D5185m         >3         0             Nickel         ppm         ASTM D5185m         >3         0             Aluminum         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             Lead         ppm         ASTM D5185m         >10         0	-	hrs	Client Info		6800		
Sample Status         method         imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0             Nickel         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >3         0             Aluminum         ppm         ASTM D5185m         >2         1             Aluminum         ppm         ASTM D5185m         >2         1             Aluminum         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Cadmium         ppm         ASTM D5185m         0         0             ADDITVES         method         imit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Maganesium         ppm         ASTM D5185m         0<	-		Client Info		Changed		
Iron         ppm         ASTM D5185m         >50         0             Chromium         ppm         ASTM D5185m         >3         0             Nickel         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >3         0             Aluminum         ppm         ASTM D5185m         >10         <1             Aluminum         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >0         0             ADDITIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Magnessum         ppm         ASTM D5185m         0         0             Magnessum         ppm         ASTM D5185m         0         0	-				NORMAL		
Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >3         0             Aluminum         ppm         ASTM D5185m         >10         <1             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         0         0             ADDITIVES         method         Imit/base         current         History1         History2           Boron         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         0<	WEAR METALS		method	limit/base	current	history1	history2
Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >2         1             Aluminum         ppm         ASTM D5185m         >10         <1             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         0         0             Vanadium         ppm         ASTM D5185m         0         0             Addenum         ppm         ASTM D5185m         0         0             Boron         ppm         ASTM D5185m         0         0              Magnesium         ppm         ASTM D5185m         0	Iron	ppm	ASTM D5185m	>50	0		
Nickel         ppm         ASTM D5185m         >3         0             Titanium         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >2         1             Aluminum         ppm         ASTM D5185m         >10         0             Aluminum         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >50         19             Vanadium         ppm         ASTM D5185m         0         0             ADDITVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         2             Sulfur         ppm         ASTM D5185m         <	Chromium		ASTM D5185m	>10			
Titanium         ppm         ASTM D5185m         >3         0             Silver         ppm         ASTM D5185m         >2         1             Aluminum         ppm         ASTM D5185m         >10         <1             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         >10         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Maganese         ppm         ASTM D5185m         0         0             Maganese         ppm         ASTM D5185m         0         0             Calcium         ppm         ASTM D5185m         0         2             Zinc         ppm         ASTM D5185m         23500         1					-		
Silver         ppm         ASTM D5185m         >2         1             Aluminum         ppm         ASTM D5185m         >10         <1             Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         10         0             Cadmium         ppm         ASTM D5185m         0         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Magnasium         ppm         ASTM D5185m         0         0             Calcium         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         0         2             Calcium         ppm         ASTM D5185m         0         0 <td></td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>							
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Lead         ppm         ASTM D5185m         >10         0             Copper         ppm         ASTM D5185m         >50         19             Vanadium         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         0         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Molybdenum         ppm         ASTM D5185m         0         0             Manganese         ppm         ASTM D5185m         0         0             Calcium         ppm         ASTM D5185m         100         0             Sulfur         ppm         ASTM D5185m         0         2             Sulfur         ppm         ASTM D5185m         23500         16976             Sulfur         ppm         ASTM D5185m         225         <							
Copper         ppm         ASTM D5185m         >50         19             Tin         ppm         ASTM D5185m         >10         0             Vanadium         ppm         ASTM D5185m         0         0             Cadmium         ppm         ASTM D5185m         0         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Molybdenum         ppm         ASTM D5185m         0         0             Manganese         ppm         ASTM D5185m         0         0             Qalcium         ppm         ASTM D5185m         0         0             Qalcium         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         25         <1							
Tin       ppm       ASTM D5185m       >10       0           Vanadium       ppm       ASTM D5185m       0           Cadmium       ppm       ASTM D5185m       0       0           ADDITVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0       0           Barium       ppm       ASTM D5185m       0       0           Manganese       ppm       ASTM D5185m       0       0           Calcium       ppm       ASTM D5185m       20       16976							
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Boron         ppm         ASTM D5185m         0         0             Barium         ppm         ASTM D5185m         90         0             Molybdenum         ppm         ASTM D5185m         0         0             Manganese         ppm         ASTM D5185m         100         0             Magnesium         ppm         ASTM D5185m         100         0             Calcium         ppm         ASTM D5185m         0         0             Calcium         ppm         ASTM D5185m         0         0             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         23500         16976             Sulfur         ppm         ASTM D5185m         >25         <1             Sulfur         ppm         ASTM D5185m         >20         <1             Sulfur         ppm         ASTM D5185m <td< th=""><th>Cadmium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th></th><th></th></td<>	Cadmium	ppm	ASTM D5185m		0		
Barium         ppm         ASTM D5185m         90         0             Molybdenum         ppm         ASTM D5185m         0         0             Manganese         ppm         ASTM D5185m         0         0             Magnesium         ppm         ASTM D5185m         100         0             Calcium         ppm         ASTM D5185m         0         2             Phosphorus         ppm         ASTM D5185m         0         2             Sulfur         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         23500         16976             Sodium         ppm         ASTM D5185m         >20         <1             Vater         %         ASTM D6304         >0.05         0.005             pm Water         ppm         ASTM D6304         >500         59.6             Particles >4µm         ASTM D7647         >4685	ADDITIVES		method	limit/base	current	history1	history2
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Magnesium         ppm         ASTM D5185m         100         0             Calcium         ppm         ASTM D5185m         0         0             Phosphorus         ppm         ASTM D5185m         0         0             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         23500         16976             Sulfur         ppm         ASTM D5185m         23500         16976             Sodium         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         >20         <1             Potassium         ppm         ASTM D6304         >0.05         0.005             Water         %         ASTM D6304         >500         59.6             Particles >4µm         ASTM D7647         4685              Particles >4µm         ASTM D7647         >130	Molybdenum	ppm	ASTM D5185m	0	0		
Calcium         ppm         ASTM D5185m         0         0             Phosphorus         ppm         ASTM D5185m         0         2             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         23500         16976             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         >20         <1             Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D6304         >0.05         0.005             Puticles >4µm         ASTM D7647         4685              Particles >6µm         ASTM D7647         >80         63             Particles >1µm         ASTM D7647         20         13	Manganese	ppm	ASTM D5185m		0		
Phosphorus         ppm         ASTM D5185m         0         2             Zinc         ppm         ASTM D5185m         0         0         0             Sulfur         ppm         ASTM D5185m         23500         16976             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         <1	Magnesium	ppm	ASTM D5185m	100	0		
Phosphorus         ppm         ASTM D5185m         0         2             Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         23500         16976             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         >25         <1             Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D5185m         >20         <1             Water         pm         ASTM D5044         >0.05         0.0055             ppm Water         ppm         ASTM D7647         4685             Particles >4µm         ASTM D7647         >1300         1243             Particles >14µm         ASTM D7647         >80         63 </th <td>Calcium</td> <td>ppm</td> <td>ASTM D5185m</td> <td>0</td> <th>0</th> <td></td> <td></td>	Calcium	ppm	ASTM D5185m	0	0		
Zinc         ppm         ASTM D5185m         0         0             Sulfur         ppm         ASTM D5185m         23500         16976             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         >20         <1             Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D6304         >0.05         0.005             ppm Water         ppm         ASTM D6304         >500         59.6             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >1300         1243             Particles >14µm         ASTM D7647         >80         63             Particles >21µm         ASTM D7647         >20         13 <td>Phosphorus</td> <td></td> <td>ASTM D5185m</td> <td>0</td> <th>2</th> <td></td> <td></td>	Phosphorus		ASTM D5185m	0	2		
Sulfur         ppm         ASTM D5185m         23500         16976             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         >20         <1             Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D6304         >0.05         0.005             ppm Water         ppm         ASTM D7647         4685              Particles >4µm         ASTM D7647         >1300         1243             Particles >6µm         ASTM D7647         >80         63             Particles >14µm         ASTM D7647         >20         13             Particles >21µm         ASTM D7647         >3         0             Particles >38µm         ASTM D7647         3         0			ASTM D5185m	0	0		
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         >20         <1             Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D6304         >0.05         0.005             ppm Water         ppm         ASTM D6304         >500         59.6             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         4685             Particles >6µm         ASTM D7647         >1300         1243             Particles >14µm         ASTM D7647         >80         63             Particles >21µm         ASTM D7647         >40              Particles >38µm         ASTM D7647         >3         0					-		
Silicon         ppm         ASTM D5185m         >25         <1						historv1	history2
Sodium         ppm         ASTM D5185m         0             Potassium         ppm         ASTM D5185m         >20         <1             Water         %         ASTM D6304         >0.05         0.005             ppm Water         ppm         ASTM D6304         >500         59.6             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         4685             Particles >6µm         ASTM D7647         >1300         1243             Particles >14µm         ASTM D7647         >80         63             Particles >21µm         ASTM D7647         >20         13             Particles >38µm         ASTM D7647         >4         0             Particles >71µm         ASTM D7647         >3         0             Oil Cleanliness         ISO 4406 (c)         >/17/13         19/17/13							
Potassium         ppm         ASTM D5185m         >20         <1				>20			
Water         %         ASTM D6304         >0.05         0.005             ppm Water         ppm         ASTM D6304         >500 <b>59.6</b> FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         4685             Particles >6µm         ASTM D7647         >1300         1243            Particles >6µm         ASTM D7647         >80         63             Particles >14µm         ASTM D7647         >20         13             Particles >21µm         ASTM D7647         >20         13             Particles >38µm         ASTM D7647         >3         0             Particles >71µm         ASTM D7647         >3         0             Oil Cleanliness         ISO 4406 (c)         >/17/13         19/17/13             FLUID DEGRADATION         method         limit/base         current         history1         history2				× 20	-		
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FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         4685             Particles >6µm         ASTM D7647         >1300         1243            Particles >6µm         ASTM D7647         >80         63             Particles >14µm         ASTM D7647         >20         13             Particles >21µm         ASTM D7647         >20         13             Particles >38µm         ASTM D7647         >4         0             Particles >71µm         ASTM D7647         >3         0             Oil Cleanliness         ISO 4406 (c)         >/17/13         19/17/13             FLUID DEGRADATION         method         limit/base         current         history1         history2							
Particles >4μm       ASTM D7647       4685           Particles >6μm       ASTM D7647       >1300       1243           Particles >14μm       ASTM D7647       >80       63           Particles >14μm       ASTM D7647       >20       13           Particles >21μm       ASTM D7647       >20       13           Particles >38μm       ASTM D7647       >4       0           Particles >37μm       ASTM D7647       >3       0           Oil Cleanliness       ISO 4406 (c)       >/17/13       19/17/13           FLUID DEGRADATION       method       limit/base       current       history1       history2			ASTM D6304		59.6		
Particles >6µm       ASTM D7647       >1300       1243           Particles >14µm       ASTM D7647       >80       63           Particles >21µm       ASTM D7647       >20       13           Particles >21µm       ASTM D7647       >20       13           Particles >38µm       ASTM D7647       >4       0           Particles >71µm       ASTM D7647       >3       0           Oil Cleanliness       ISO 4406 (c)       >/17/13       19/17/13           FLUID DEGRADATION       method       limit/base       current       history1       history2	FLUID CLEANLIN	IESS	method	limit/base		history1	history2
Particles >14µm       ASTM D7647       >80       63           Particles >21µm       ASTM D7647       >20       13           Particles >38µm       ASTM D7647       >4       0           Particles >38µm       ASTM D7647       >4       0           Particles >71µm       ASTM D7647       >3       0           Oil Cleanliness       ISO 4406 (c)       >/17/13       19/17/13           FLUID DEGRADATION       method       limit/base       current       history1       history2							
Particles >21μm         ASTM D7647         >20         13             Particles >38μm         ASTM D7647         >4         0             Particles >38μm         ASTM D7647         >4         0             Particles >71μm         ASTM D7647         >3         0             Oil Cleanliness         ISO 4406 (c)         >/17/13         19/17/13             FLUID DEGRADATION         method         limit/base         current         history1         history2			ASTM D7647	>1300	1243		
Particles >38μm         ASTM D7647         >4         0             Particles >71μm         ASTM D7647         >3         0             Oil Cleanliness         ISO 4406 (c)         >/17/13         19/17/13             FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>80	63		
Particles >71μm         ASTM D7647         >3         0             Oil Cleanliness         ISO 4406 (c)         >/17/13         19/17/13             FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>20	13		
Oil Cleanliness       ISO 4406 (c) >/17/13       19/17/13           FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >38µm		ASTM D7647	>4	0		
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>/17/13	19/17/13		
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.33	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.33		



# **OIL ANALYSIS REPORT**

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

cSt

White Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

Free Water

Visc @ 40°C

**Emulsified Water** 

FLUID PROPERTIES

Yellow Metal

\*Visual

\*Visual

\*Visua

\*Visual

\*Visual

\*Visual

\*Visual

\*Visual

ASTM D445

scalar \*Visual

scalar \*Visual

NONE

NONE

NONE

NONE

NONE

NONE NORML

NORML

>0.05

45

NONE

NONE

NONE

NONE

NONE

NONE

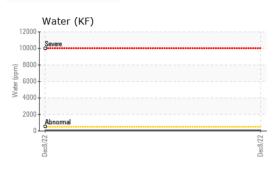
NORML

NORML

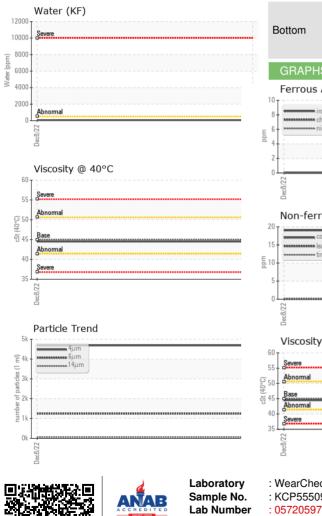
NEG

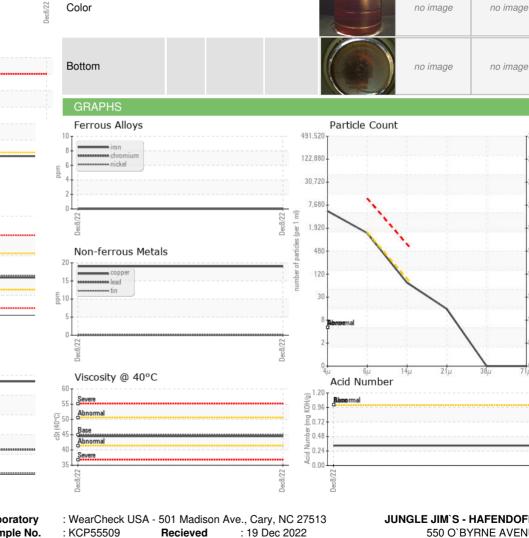
NEG

44.5









: 20 Dec 2022

Diagnostician : Don Baldridge



 Certificate 12367
 Test Package
 : IND 2 (Additional Tests: KF, PrtCount)

 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)

: 10260173

Diagnosed

18 18

14

:1999 Cle

Unique Number