

## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

# **7378815 (S/N 1026)** Component Compressor

### Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

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

SAMPLE INFORMATION         method         limitbase         current         history1         history2           Sample Dumber         Client Info         KC129307         KC101451            Machine Age         hrs         Client Info         S704         5913            Oil Age         hrs         Client Info         3000         3300            Oil Age         hrs         Client Info         ABNORMAL         ATTENTION            WEAR METALS         method         Imitbase         current         history1         history2           Iron         ppm         ASTM05185         >50         0         0				1002020			
Sample Date         Info         25 Mar 2024         28 Feb 2023            Machine Age         hrs         Client Info         8704         5913            Oil Age         hrs         Client Info         3000         3300            Oil Age         Client Info         3000         3300            Sample Status         Int         Enerthold         ABNORMAL         ATTENTION            WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM 05185m         >3         0         0            Nickel         ppm         ASTM 05185m         >3         0         0            Lead         ppm         ASTM 05185m         >10         0         0            Vandium         ppm         ASTM 05185m         10         0             Vandium         ppm         ASTM 05185m         0         0             Cademium         ppm         ASTM 05185m         0         0             Mandium	SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         8704         5913            Oil Age         hrs         Client Info         3000         3300            Oil Changed         Client Info         Changed         Changed            Sample Status         Imit Mathematical Content in the interval         National Content interval         National Content interval         National Content interval           WEAR METALS         method         Imit/Dass         Current         National Content interval         Natio	Sample Number		Client Info		KC129307	KC101451	
Oil Age         Ins         Client Info         3000         3300            Oil Changed         Client Info         Changed         Changed            Sample Status         Imit Dot Isin         >50         0         0            WEAR METALS         method         Imit/base         current         history1         history2           Iron         ppm         ASTM D518m         >50         0         0            Chromium         ppm         ASTM D518m         >30         0         0            Nickel         ppm         ASTM D518m         >30         0         0            Aluminum         ppm         ASTM D518m         >30         0         0            Aluminum         ppm         ASTM D518m         >10         0         0            Aduminum         ppm         ASTM D518m         >10         0         0            Vanadium         ppm         ASTM D518m         50         0         0            Adminum         ppm         ASTM D518m         0         0	Sample Date		Client Info		25 Mar 2024	28 Feb 2023	
Oil Changed Sample Status         Client Info         Changed ABNORMAL         Changed ATTENTION            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185n         >50         0         0            Ohromium         ppm         ASTM D5185n         >30         0         0            Nickel         ppm         ASTM D5185n         >32         0         0            Nickel         ppm         ASTM D5185n         >32         0         0            Aluminum         ppm         ASTM D5185n         >10         0         0            Copper         ppm         ASTM D5185n         >10         0         0            Vanadium         ppm         ASTM D5185n         >10         0         0            ASTM D5185n         >10         0         0             ASTM D5185n         >10         0         0            Cadmium         ppm         ASTM D5185n         0         0	Machine Age	hrs	Client Info		8704	5913	
Oil Changed Sample Status         Client Info         Changed ABNORMAL         Changed ATTENTION            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185n         >50         0         0            Ohromium         ppm         ASTM D5185n         >30         0         0            Nickel         ppm         ASTM D5185n         >32         0         0            Nickel         ppm         ASTM D5185n         >32         0         0            Aluminum         ppm         ASTM D5185n         >10         0         0            Copper         ppm         ASTM D5185n         >10         0         0            Vanadium         ppm         ASTM D5185n         >10         0         0            ASTM D5185n         >10         0         0             ASTM D5185n         >10         0         0            Cadmium         ppm         ASTM D5185n         0         0	Oil Age	hrs	Client Info		3000	3300	
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         0            Chromium         ppm         ASTM D5185m         >30         0         0            Nickel         ppm         ASTM D5185m         >33         0         0            Silver         ppm         ASTM D5185m         >30         0         0            Lead         ppm         ASTM D5185m         >50         10         12            Cadmium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0            Magnese         ppm         ASTM D5185m         0         0             Magnesium         pm         ASTM D5185m         0         2 <t< th=""><td>Oil Changed</td><td></td><td>Client Info</td><td></td><th>Changed</th><td>Changed</td><td></td></t<>	Oil Changed		Client Info		Changed	Changed	
Iron         ppm         ASTM D5185m         >50         0         0            Nickel         ppm         ASTM D5185m         >3         0         0            Nickel         ppm         ASTM D5185m         >3         0         0            Silver         ppm         ASTM D5185m         >2         0         0            Aluminum         ppm         ASTM D5185m         >10         0         0            Lead         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         0         0         0            ADDITIVES         method         Imit/base         current         history1         history2           Baron         ppm         ASTM D5185m         90         0             Magnesium         ppm         ASTM D5185m         90         0	Sample Status				ABNORMAL	ATTENTION	
Chromium         ppm         ASTM D5185m         >10         0         0	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         >3         0         0            Titanium         ppm         ASTM D5185m         >3         0         0            Silver         ppm         ASTM D5185m         >2         0         0            Aluminum         ppm         ASTM D5185m         >10         0         0            Lead         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >50         10         12            Vanadium         ppm         ASTM D5185m         >10         0         0            Addminum         ppm         ASTM D5185m         0         0            Addminum         ppm         ASTM D5185m         0         0            Addminum         ppm         ASTM D5185m         0         0	Iron	ppm	ASTM D5185m	>50	0	0	
Titanium         ppm         ASTM D5185m         >3         0         0	Chromium	ppm	ASTM D5185m	>10	0	0	
Silver       ppm       ASTM D5185m       >2       0       0	Nickel	ppm	ASTM D5185m	>3	0	0	
Aluminum       ppm       ASTM D5185m       >10       0       0          Lead       ppm       ASTM D5185m       >10       0       0          Copper       ppm       ASTM D5185m       >50       10       12          Tin       ppm       ASTM D5185m       >10       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          Marganese       ppm       ASTM D5185m       0       0	Titanium	ppm	ASTM D5185m	>3	0	0	
Lead         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >50         10         12            Tin         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Cadmium         ppm         ASTM D5185m         0         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0	Silver	ppm	ASTM D5185m	>2	0	0	
Lead         ppm         ASTM D5185m         >10         0         0            Copper         ppm         ASTM D5185m         >50         10         12            Tin         ppm         ASTM D5185m         >10         0         0            Vanadium         ppm         ASTM D5185m         >10         0         0            Cadmium         ppm         ASTM D5185m         0         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Malybdenum         ppm         ASTM D5185m         90         0         0            Magnese         ppm         ASTM D5185m         90         0         21            Magnesium         ppm         ASTM D5185m         20         <-11	Aluminum	ppm	ASTM D5185m	>10	0	0	
Copper         ppm         ASTM D5185m         >50         10         12            Tin         ppm         ASTM D5185m         >10         0         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             Barium         ppm         ASTM D5185m         90         0         0            Magnesium         ppm         ASTM D5185m         90         0             Aganesium         ppm         ASTM D5185m         90         0             Contam         ppm         ASTM D5185m         90         0             Zinc         ppm         ASTM D5185m         20              Silicon         ppm         ASTM D5185m         >20         2         0 <td< th=""><td>Lead</td><td></td><td>ASTM D5185m</td><td>&gt;10</td><th>0</th><td>0</td><td></td></td<>	Lead		ASTM D5185m	>10	0	0	
Tin       ppm       ASTM D5185m       >10       0       0          Vanadium       ppm       ASTM D5185m       Q       0          Cadmium       ppm       ASTM D5185m       Q       0       0          ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       Q       0       0          Barium       ppm       ASTM D5185m       90       0       0          Magnese       ppm       ASTM D5185m       90       0           Magnesium       ppm       ASTM D5185m       90       0           Calcium       ppm       ASTM D5185m       90       0           Magnesium       ppm       ASTM D5185m       2       0       -1          Calcium       ppm       ASTM D5185m       2       0       <1			ASTM D5185m	>50	10	12	
Vanadium         ppm         ASTM D5185m         <1			ASTM D5185m	>10	0	0	
Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0             Barium         ppm         ASTM D5185m         90         0         0             Molybdenum         ppm         ASTM D5185m         90         0         0             Magnesse         ppm         ASTM D5185m         90         0         2            Magnesium         ppm         ASTM D5185m         90         0         2            Calcium         ppm         ASTM D5185m         90         0         2            Zinc         ppm         ASTM D5185m         2         0         <1	Vanadium		ASTM D5185m			0	
ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0       0          Barium       ppm       ASTM D5185m       90       0       0          Molybdenum       ppm       ASTM D5185m       90       0       0          Magnese       ppm       ASTM D5185m       90       0       2          Magnesium       ppm       ASTM D5185m       90       0       21          Calcium       ppm       ASTM D5185m       90       0       21          Phosphorus       ppm       ASTM D5185m       0       21          Zinc       ppm       ASTM D5185m       0       21          Solicon       ppm       ASTM D5185m       >25       0       <11          Solicon       ppm       ASTM D5185m       >20       2       0          Solicon       ppm       ASTM D5185m       >20       2       0          Solicon       ppm       ASTM D5185m       >20       2       0	Cadmium				0	0	
Boron         ppm         ASTM D5185m         0         0            Barium         ppm         ASTM D5185m         90         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         90         0         2            Magnesium         ppm         ASTM D5185m         90         0         2            Calcium         ppm         ASTM D5185m         2         0         <1            Phosphorus         ppm         ASTM D5185m         2         0         <1            Zinc         ppm         ASTM D5185m         0         <1             Silicon         ppm         ASTM D5185m         >25         0         <1            Sodium         ppm         ASTM D5185m         >20         2         0            Vater         %         ASTM D5185m         >20         2         0            ppm Water         ppm         ASTM D5185m         >20         20         0		le le		It as to the second		-	la la tarra d
Barium         ppm         ASTM D5185m         90         0         0            Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         0         0            Magnesium         ppm         ASTM D5185m         90         0         2            Calcium         ppm         ASTM D5185m         2         0         <1            Calcium         ppm         ASTM D5185m         2         0         <1            Zinc         ppm         ASTM D5185m         0         2             Sodium         ppm         ASTM D5185m         >25         0         <1            Sodium         ppm         ASTM D5185m         >20         2         0            Vater         %         ASTM D5185m         >20         2         0            Water         ppm         ASTM D6185m         >20         2         0            Particles >4µm         ASTM D6304         >500         169         68.8	ADDITIVE5		method	limit/base	current		history2
Molybdenum         ppm         ASTM D5185m         0         0            Manganese         ppm         ASTM D5185m         90         0         2            Magnesium         ppm         ASTM D5185m         90         0         2            Calcium         ppm         ASTM D5185m         2         0         <1	Boron	ppm	ASTM D5185m		0	0	
Manganese       ppm       ASTM D5185m       0       0          Magnesium       ppm       ASTM D5185m       90       0       2          Calcium       ppm       ASTM D5185m       2       0       <1          Phosphorus       ppm       ASTM D5185m       0       2          Zinc       ppm       ASTM D5185m       0       <1          CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >25       0       <1          Sodium       ppm       ASTM D5185m       >25       0       <1          Sodium       ppm       ASTM D5185m       >20       2       0          Sodium       ppm       ASTM D5185m       >20       2       0          Water       %       ASTM D5185m       >20       2       0          Water       %       ASTM D6304       >500       169       68.8          FLUID CLEANLINESS       method       limit/base       current       history1 <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td>90</td> <th>0</th> <td>0</td> <td></td>	Barium	ppm	ASTM D5185m	90	0	0	
Magnesium         ppm         ASTM D5185m         90         0         2            Calcium         ppm         ASTM D5185m         2         0         <1            Phosphorus         ppm         ASTM D5185m         2         0         <1            Zinc         ppm         ASTM D5185m         0         2            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         <1            Sodium         ppm         ASTM D5185m         >25         0         <1            Sodium         ppm         ASTM D5185m         >20         2         0            Vater         %         ASTM D5185m         >20         2         0            Water         ppm         ASTM D5185m         >20         0.016         0.006            ppm Water         ppm         ASTM D7647         >500         169         68.8            Particles >4µm         ASTM D7647         >1300         2107         1772 </th <td>Molybdenum</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>0</td> <td></td>	Molybdenum	ppm	ASTM D5185m		0	0	
Calcium         ppm         ASTM D5185m         2         0         <1	0	ppm	ASTM D5185m		0		
Phosphorus         ppm         ASTM D5185m         0         2            Zinc         ppm         ASTM D5185m         0         <1	Magnesium	ppm	ASTM D5185m	90	0	2	
Zinc         ppm         ASTM D5185m         0         <1	Calcium	ppm	ASTM D5185m	2	0	<1	
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>250<1SodiumppmASTM D5185m>2020PotassiumppmASTM D5185m>2020Water%ASTM D6304>0.050.0160.006ppm WaterppmASTM D6304>50016968.8FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647>130021071772Particles >6µmASTM D7647>8023865Particles >14µmASTM D7647>20737Particles >38µmASTM D7647>310Particles >71µmASTM D7647>310Oil CleanlinessISO 4406 (c)>/17/1320/18/1520/18/13FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Phosphorus	ppm	ASTM D5185m		0	2	
Silicon       ppm       ASTM D5185m       >25       0       <1          Sodium       ppm       ASTM D5185m       >20       2       0          Potassium       ppm       ASTM D5185m       >20       2       0          Water       %       ASTM D6304       >0.05       0.016       0.006          ppm Water       ppm       ASTM D6304       >500       169       68.8          FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >1300       2107       1772          Particles >6µm       ASTM D7647       >80       238       65          Particles >14µm       ASTM D7647       >20       73       7          Particles >21µm       ASTM D7647       >3       1       0          Particles >38µm       ASTM D7647       >3       1       0          Particles >71µm       ASTM D7647       >3       1       0          Oil Cleanliness       ISO 4406 (c)       >/17/13       20/18/15       20/18/13	Zinc	ppm	ASTM D5185m		0	<1	
Sodium         ppm         ASTM D5185m         1         <1	CONTAMINANTS	6	method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         2         0            Water         %         ASTM D6304         >0.05         0.016         0.006            ppm Water         ppm         ASTM D6304         >500         169         68.8            FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         7577         6291            Particles >6µm         ASTM D7647         >1300         2107         1772            Particles >14µm         ASTM D7647         >80         238         65            Particles >21µm         ASTM D7647         >20         73         7            Particles >38µm         ASTM D7647         >3         1         0            Particles >71µm         ASTM D7647         >3         1         0            Gli Cleanliness         ISO 4406 (c)        /17/13         20/18/15         20/18/13            FLUID DEGRADATION         method         limit/base         current         history1         history2 <td>Silicon</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;25</td> <th>0</th> <td>&lt;1</td> <td></td>	Silicon	ppm	ASTM D5185m	>25	0	<1	
Water       %       ASTM D6304       >0.05       0.016       0.006          ppm Water       ppm       ASTM D6304       >500       169       68.8          FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       7577       6291          Particles >6µm       ASTM D7647       >1300       2107       1772          Particles >14µm       ASTM D7647       >80       238       65          Particles >21µm       ASTM D7647       >20       73       7          Particles >38µm       ASTM D7647       >4       4       0          Particles >71µm       ASTM D7647       3       1       0          Oil Cleanliness       ISO 4406 (c)      /17/13       20/18/15       20/18/13          FLUID DEGRADATION       method       limit/base       current       history1       history2		ppm	ASTM D5185m		1	<1	
ppm Water         ppm         ASTM D6304         >500         169         68.8            FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         7577         6291            Particles >6µm         ASTM D7647         >1300         2107         1772            Particles >14µm         ASTM D7647         >80         238         65            Particles >21µm         ASTM D7647         >20         73         7            Particles >21µm         ASTM D7647         >4         0            Particles >38µm         ASTM D7647         >3         1         0            Particles >71µm         ASTM D7647         >3         1         0            Oil Cleanliness         ISO 4406 (c)        /17/13         20/18/15         20/18/13            FLUID DEGRADATION         method         limit/base         current         history1         history2	Potassium	ppm	ASTM D5185m	>20			
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       7577       6291          Particles >6µm       ASTM D7647       >1300       2107       1772          Particles >14µm       ASTM D7647       >80       238       65          Particles >21µm       ASTM D7647       >20       73       7          Particles >21µm       ASTM D7647       >20       73       7          Particles >38µm       ASTM D7647       >4       0          Particles >71µm       ASTM D7647       >3       1       0          Oil Cleanliness       ISO 4406 (c)       >/17/13       20/18/15       20/18/13          FLUID DEGRADATION       method       limit/base       current       history1       history2	Water	%	ASTM D6304	>0.05	0.016	0.006	
Particles >4μm       ASTM D7647       7577       6291          Particles >6μm       ASTM D7647       >1300       ▲ 2107       1772          Particles >14μm       ASTM D7647       >80       ▲ 238       65          Particles >21μm       ASTM D7647       >20       ▲ 73       7          Particles >21μm       ASTM D7647       >20       ▲ 73       7          Particles >38μm       ASTM D7647       >4       4       0          Particles >71μm       ASTM D7647       >3       1       0          Oil Cleanliness       ISO 4406 (c)       >/17/13       ▲ 20/18/15       ● 20/18/13          FLUID DEGRADATION       method       limit/base       current       history1       history2	ppm Water	ppm	ASTM D6304	>500	169	68.8	
Particles >6µm       ASTM D7647       >1300       ▲ 2107       1772          Particles >14µm       ASTM D7647       >80       ▲ 238       65          Particles >21µm       ASTM D7647       >20       ▲ 73       7          Particles >38µm       ASTM D7647       >4       4       0          Particles >38µm       ASTM D7647       >3       1       0          Particles >71µm       ASTM D7647       >3       1       0          Oil Cleanliness       ISO 4406 (c)       >/17/13       ▲ 20/18/15       ⊇0/18/13          FLUID DEGRADATION       method       limit/base       current       history1       history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm       ASTM D7647       >80       ▲ 238       65          Particles >21μm       ASTM D7647       >20       ▲ 73       7          Particles >38μm       ASTM D7647       >4       4       0          Particles >38μm       ASTM D7647       >3       1       0          Particles >71μm       ASTM D7647       >3       1       0          Oil Cleanliness       ISO 4406 (c)       >/17/13       ▲ 20/18/15       20/18/13          FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >4µm		ASTM D7647		7577	6291	
Particles >21µm         ASTM D7647         >20         ▲ 73         7            Particles >38µm         ASTM D7647         >4         4         0            Particles >38µm         ASTM D7647         >4         4         0            Particles >71µm         ASTM D7647         >3         1         0            Oil Cleanliness         ISO 4406 (c)         >/17/13         ▲ 20/18/15         ● 20/18/13            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >6µm		ASTM D7647	>1300	<u> </u>	1772	
Particles >38μm         ASTM D7647         >4         4         0            Particles >71μm         ASTM D7647         >3         1         0            Oil Cleanliness         ISO 4406 (c)         >/17/13         ▲ 20/18/15         20/18/13            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>80	<u> </u>	65	
Particles >71μm         ASTM D7647         >3         1         0            Oil Cleanliness         ISO 4406 (c)         >/17/13         ▲ 20/18/15         ● 20/18/13            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>20	<mark>/</mark> 73	7	
Oil Cleanliness         ISO 4406 (c)         >/17/13         ▲ 20/18/15         ⊇0/18/13            FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >38µm			>4	4	0	
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	1	0	
	Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 20/18/15	0/18/13	
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.31 0.30	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.31	0.30	



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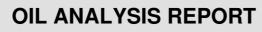
42

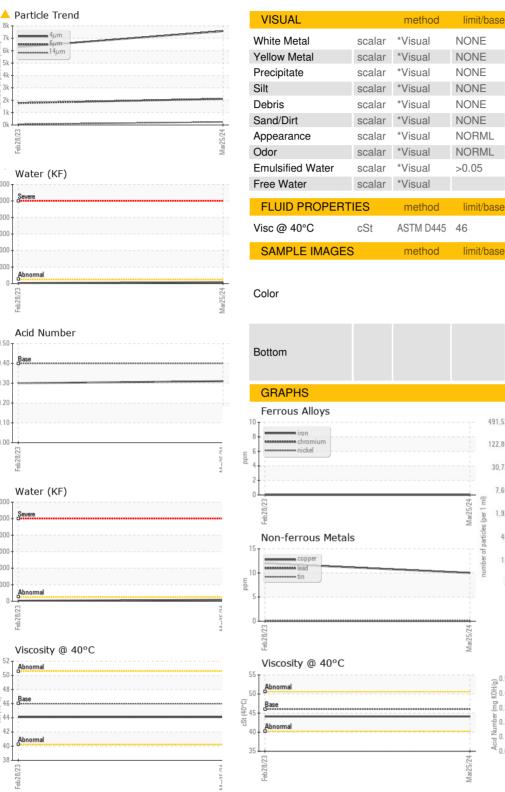
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Built for a lifetime







history1

VLITE

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history

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NORML

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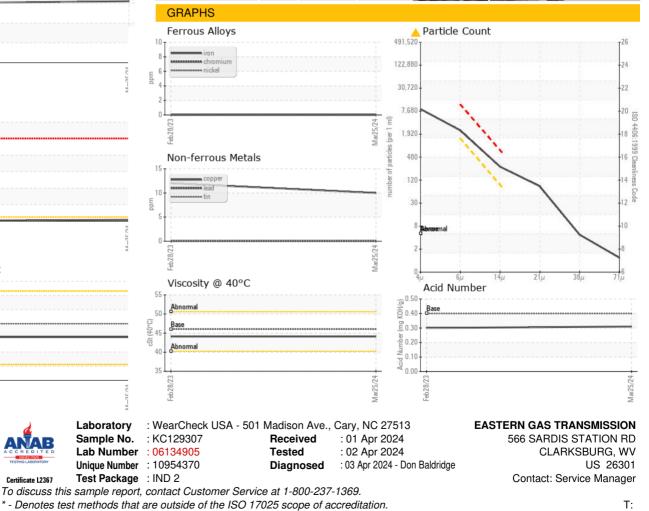
NEG

NEG

44.1

history2

history



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

Certificate L2367

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