

### **OIL ANALYSIS REPORT**

# KAESER SM 10 7181402 (S/N 1281)

Compressor

KAESER SIGMA (OEM) S-460 (--- LTR)

#### DIAGNOSIS

#### Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

#### Wear

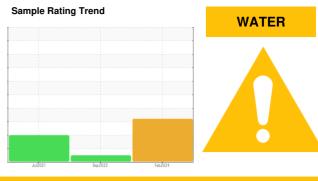
All component wear rates are normal.

#### Contamination

There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid.

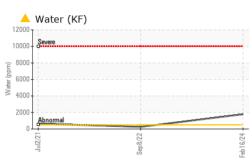


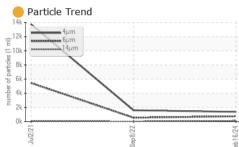
Sample NumberClient InfoKC05012232KC05656267KC0501242Sample DateClient Info16 Feb 202303 Sep 20202 Jul 2011Machine AgehrsClient Info976931254Oil AgehrsClient InfoN/AChangedChangedSample StatusClient InfoN/AChangedChangedWEAR METALSmethodImticescurrentNoRMALNoRMALNormiumppmASTM 051555>50000NickelppmASTM 051555>33000NickelppmASTM 051555>30000SilverppmASTM 051555>30000SilverppmASTM 051555>30000LeadppmASTM 051555>10<100AuminumppmASTM 051555>10<100AdaminumppmASTM 0515550000AdaminumppmASTM 0515550000AdaminumppmASTM 0515550000AdaminumppmASTM 0515550001AdaminumppmASTM 0515550001AdaminumppmASTM 0515550000AdaminumppmASTM 0515550001AdaminumppmASTM 051555<	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age       hrs       Client Info       4973       3039       1254         Oil Age       hrs       Client Info       0       693       1254         Oil Changed       Client Info       N/A       Changed       Changed         Sample Status       method       limit/base       current       history1       history2         Iron       ppm       ASTM D5185m       >50       0       0       <1         Nickel       ppm       ASTM D5185m       >3       0       0       0         Nickel       ppm       ASTM D5185m       >3       0       0       0         Silver       ppm       ASTM D5185m       >3       0       0       0         Lead       ppm       ASTM D5185m       >10       <1       <1       <1         Copper       ppm       ASTM D5185m       >10       <1       0       0         Vanadium       ppm       ASTM D5185m       10       <1       <1       <1         Vanadium       ppm       ASTM D5185m       0       0       0       0         Astin	Sample Number		Client Info		KC06122325	KC05656267	KC05301264
Oil Age       hrs       Client Info       N/A       Changed       Changed         Sample Status       I       I       Image       Changed       Changed         Sample Status       Image       Current       NoRMAL       ABNORMAL         WEAR METALS       method       limit/base       current       history1       history2         Iron       ppm       ASTM 05185m       >50       0       0       <1         Chromium       ppm       ASTM 05185m       >10       0       0       0         Nickel       ppm       ASTM 05185m       >2       0       0       <1         Aluminum       ppm       ASTM 05185m       >10       <1       <1       <1         Copper       ppm       ASTM 05185m       >10       <1       0       0       0         Astm 05185m       >10       <1       0       0       0       0       0         Astm 05185m       >0       0       0       0       0       0       0         Astm 05185m       0       0       0       0       0	Sample Date		Client Info		16 Feb 2024	08 Sep 2022	02 Jul 2021
Oil Changed Sample Status   Client Info   N/A ABNORMAL   Changed NORMAL   Changed ABNORMAL   Changed ABNORMAL   Changed ABNORMAL   Changed ABNORMAL     WEAR METALS   method   imit/base   current   history1   history2     Iron   ppm   ASTM D518sm   >50   0   0   <1     Chromium   ppm   ASTM D518sm   >30   0   0   0     Nickel   ppm   ASTM D518sm   >30   0   0   0     Silver   ppm   ASTM D518sm   >30   0   <1   0     Lead   ppm   ASTM D518sm   >10   <1   <1   <1     Copper   ppm   ASTM D518sm   >50   7   5   1     Tin   ppm   ASTM D518sm   >50   7   0   0     Antimony   ppm   ASTM D518sm   0   <1   0   0     Antimony   ppm   ASTM D518sm   0   0   0   0     Astm D518sm   0   0   0   0   0   0     Astm D518sm   90   1   28   53   1   1     Boron   ppm   ASTM D518sm   90   1   28   53 </th <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>4973</th> <th>3039</th> <th>1254</th>	Machine Age	hrs	Client Info		4973	3039	1254
Sample Status       Image: method       ABNORMAL       NORMAL       ABNORMAL         WEAR METALS       method       limit/base       current       history1       history2         Iron       ppm       ASTM D5185m       >50       0       0       <1         Chromium       ppm       ASTM D5185m       >30       0       0       0         Nickel       ppm       ASTM D5185m       >30       0       0       <1         Titanium       ppm       ASTM D5185m       >2       0       0       <1         Copper       ppm       ASTM D5185m       >10       <1       0       <1       0         Lead       ppm       ASTM D5185m       >10       <1       0       0       0         Copper       ppm       ASTM D5185m       0       0       0       0       0         Vanadium       ppm       ASTM D5185m       0       0       0       0       0         Codemium       ppm       ASTM D5185m       0       0       1       28       53         Barium       ppm       ASTM	Oil Age	hrs	Client Info		0	693	1254
WEAR METALS       method       limit/base       current       history1       history2         Iron       ppm       ASTM 05185m       >50       0       0       <1         Chromium       ppm       ASTM 05185m       >3       0       0       0         Nickel       ppm       ASTM 05185m       >3       0       0       0         Silver       ppm       ASTM 05185m       >2       0       0       <1         Aluminum       ppm       ASTM 05185m       >10       0       <1       0         Lead       ppm       ASTM 05185m       >10       <1       <1       <1       <1         Copper       ppm       ASTM 05185m       >10       <1       0       0       0         Antimony       ppm       ASTM 05185m       0       0       0       0       0         Antimony       ppm       ASTM 05185m       0       0       0       0       0         Vanadium       ppm       ASTM 05185m       0       0       0       0       0         Molybdenum       ppm <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>Changed</th> <th>Changed</th>	Oil Changed		Client Info		N/A	Changed	Changed
Iron       ppm       ASTM D5185m       >50       0       0       <1	Sample Status				ABNORMAL	NORMAL	ABNORMAL
Chromium       ppm       ASTM D5185m       >10       0       0       0         Nickel       ppm       ASTM D5185m       >3       0       0       0         Silver       ppm       ASTM D5185m       >2       0       0       <1         Silver       ppm       ASTM D5185m       >10       <1       0       <1         Lead       ppm       ASTM D5185m       >10       <1       <1       <1         Copper       ppm       ASTM D5185m       >10       <1       0       0         Antimony       ppm       ASTM D5185m       >10       <1       0       0       0         Antimony       ppm       ASTM D5185m       0       0       0       0       0         Antimony       ppm       ASTM D5185m       0       0       0       0       0         Antimony       ppm       ASTM D5185m       0       0       0       0       0         Antimony       ppm       ASTM D5185m       0       0       0       0       0         Barium       ppm	WEAR METALS		method	limit/base	current	history1	history2
Nickel       ppm       ASTM D5185m       >3       0       0       0         Titanium       ppm       ASTM D5185m       >2       0       0       <1         Silver       ppm       ASTM D5185m       >2       0       0       <1         Aluminum       ppm       ASTM D5185m       >10       <1       <1       <1         Copper       ppm       ASTM D5185m       >50       7       5       1         Tin       ppm       ASTM D5185m       >50       7       5       1         Antimony       ppm       ASTM D5185m       0       0       0       0         Vanadium       ppm       ASTM D5185m       0       0       0       0         Cadmium       ppm       ASTM D5185m       0       0       0       0         Boron       ppm       ASTM D5185m       90       0       0       0       0         Magnesium       ppm       ASTM D5185m       0       0       <1       1       28       53         Calcium       ppm       ASTM D5185m       0 <th>Iron</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;50</th> <th>0</th> <th>0</th> <th>&lt;1</th>	Iron	ppm	ASTM D5185m	>50	0	0	<1
Nickel       ppm       ASTM D5185m       >3       0       0       0         Titanium       ppm       ASTM D5185m       >3       0       0       0         Silver       ppm       ASTM D5185m       >2       0       <1       0         Lead       ppm       ASTM D5185m       >10       <1       <1       <1         Copper       ppm       ASTM D5185m       >50       7       5       1         Tin       ppm       ASTM D5185m       >10       <1       0       0         Antimony       ppm       ASTM D5185m       0       0       0       0         Vanadium       ppm       ASTM D5185m       0       0       0       0         Cadmium       ppm       ASTM D5185m       0       0       0       0         Boron       ppm       ASTM D5185m       90       0       <1       <1         Magnesium       ppm       ASTM D5185m       0       0       <1       <1         Magnesium       ppm       ASTM D5185m       0       1       28       53 <th>Chromium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;10</th> <th>0</th> <th>0</th> <th>0</th>	Chromium	ppm	ASTM D5185m	>10	0	0	0
Titanium       ppm       ASTM D5185m       >3       0       0       0         Silver       ppm       ASTM D5185m       >2       0       0       <1         Aluminum       ppm       ASTM D5185m       >10       0       <1       0         Lead       ppm       ASTM D5185m       >10       <1       <1       <1         Copper       ppm       ASTM D5185m       >10       <1       0       0         Antimony       ppm       ASTM D5185m       >10       <1       0       0         Vanadium       ppm       ASTM D5185m       0       0       0       0         Cadmium       ppm       ASTM D5185m       0       0       0       0         ADDTTVES       method       imit/base       current       history1       history2         Boron       ppm       ASTM D5185m       90       0       0       0         Magnesium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       2       0       0       <	Nickel		ASTM D5185m	>3	0	0	0
Silver       ppm       ASTM D5185m       >2       0       0       <1         Aluminum       ppm       ASTM D5185m       >10       C       1       <1	Titanium		ASTM D5185m	>3	0	0	0
Aluminum       ppm       ASTM D5185m       >10       <1	Silver			>2	0	0	<1
Lead       ppm       ASTM D5185m       >10       <1       <1       <1         Copper       ppm       ASTM D5185m       >50       7       5       1         Tin       ppm       ASTM D5185m       >10       <1	Aluminum			>10	-	<1	0
Copper       ppm       ASTM D5185m       >50       7       5       1         Tin       ppm       ASTM D5185m       >10       <1					-		
Tin     ppm     ASTM D5185m     >10     <1							
Antimony       ppm       ASTM D5185m       0         0         Vanadium       ppm       ASTM D5185m       0       0       0       0         Cadmium       ppm       ASTM D5185m       0       0       0       0         ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0       0       0       0         Magnanese       ppm       ASTM D5185m       0       0       0       0         Magnaese       ppm       ASTM D5185m       0       0       0       1 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Vanadium       ppm       ASTM D5185m       0       0       0         Cadmium       ppm       ASTM D5185m       0       0       0       0         ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0       0       0       0         Barium       ppm       ASTM D5185m       90       0       0       0       0         Molybdenum       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       20       0       <1							
Cadmium       ppm       ASTM D5185m       0       0       0         ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0       0       13         Barium       ppm       ASTM D5185m       90       0       0       0       0         Magnese       ppm       ASTM D5185m       90       0       0       0       0         Magnesium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       4       5         Zinc       ppm       ASTM D5185m       20       6       4         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       20       6       12         Potassium	•						
ADDITIVES       method       limit/base       current       history1       history2         Boron       ppm       ASTM D5185m       0       0       0       0         Barium       ppm       ASTM D5185m       90       0       0       0         Molybdenum       ppm       ASTM D5185m       0       0       0       0         Magnesium       ppm       ASTM D5185m       0       1       28       53         Calcium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       4       5       2         Zinc       ppm       ASTM D5185m       0       4       5       2         Silicon       ppm       ASTM D5185m       25       0       <1       0         Sodium       ppm       ASTM D5185m       22       0       5       6       12         Vater       %       ASTM D5185m       20       5       6       12       0         Potassium       ppm       ASTM D580       20.05       0.17							
Boron       ppm       ASTM D5185m       0       0       13         Barium       ppm       ASTM D5185m       90       0       0       0         Molybdenum       ppm       ASTM D5185m       0       0       0       0         Manganese       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       2       0       4       5         Zinc       ppm       ASTM D5185m       25       0       <1		ppin			Ū	U	0
Barium       ppm       ASTM D5185m       90       0       0       0         Molybdenum       ppm       ASTM D5185m       0       0       0         Magnaese       ppm       ASTM D5185m       0       1       <1         Magnesium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       4       5       5         Zinc       ppm       ASTM D5185m       0       6       4       5         Zinc       ppm       ASTM D5185m       >25       0       <1       0       0         Sodium       ppm       ASTM D5185m       >20       0       5       6       12         Potassium       ppm       ASTM D5185m       >20       0       5       6       3.0         Patter       %       ASTM D5185m       >20       0 <td< th=""><th>ADDITIVES</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum       ppm       ASTM D5185m       0       0       0         Manganese       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       2       0       0       <1         Phosphorus       ppm       ASTM D5185m       2       0       4       5         Zinc       ppm       ASTM D5185m       0       6       4         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >25       0       <1       0         Sodium       ppm       ASTM D5185m       >20       0       5       6         Water       %       ASTM D6304       >0.05       0.178       0.025       0.065         pm       Water       pm       ASTM D6304       >500       1780       254.9	Boron	ppm	ASTM D5185m				
Marganese       ppm       ASTM D5185m       0       <1	Barium	ppm	ASTM D5185m	90	0	0	0
Magnesium       ppm       ASTM D5185m       90       1       28       53         Calcium       ppm       ASTM D5185m       2       0       0       <1         Phosphorus       ppm       ASTM D5185m       0       4       5         Zinc       ppm       ASTM D5185m       0       6       4         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >25       0       <1       0         Sodium       ppm       ASTM D5185m       >25       0       <1       0         Sodium       ppm       ASTM D5185m       >20       0       5       6         Water       %       ASTM D504       >0.05       0.178       0.025       0.065         pm       MSTM D7647       >1300       744       546       5442         Particles >4µm       ASTM D7647       >3       1       0       12         Particles >1µm       ASTM D7647       >20       43       8       12         Particles >21µm       <	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium       ppm       ASTM D5185m       2       0       0       <1	Manganese	ppm	ASTM D5185m		0	<1	<1
Phosphorus       ppm       ASTM D5185m       0       4       5         Zinc       ppm       ASTM D5185m       0       6       4         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >25       0       <1	Magnesium	ppm	ASTM D5185m	90	1	28	53
Zinc       ppm       ASTM D5185m       0       6       4         CONTAMINANTS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D5185m       >25       0       <1       0         Sodium       ppm       ASTM D5185m       >25       0       <1       0         Sodium       ppm       ASTM D5185m       >20       0       5       6         Vater       %       ASTM D6304       >0.05       0.178       0.025       0.065         ppm Water       ppm       ASTM D6304       >500       1780       254.9       653.0         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       >1300       744       546       5442         Particles >14µm       ASTM D7647       >80       127       32       71         Particles >21µm       ASTM D7647       >4       7       1       0         Particles >38µm       ASTM D7647       >3       1       0       0	Calcium	ppm	ASTM D5185m	2	0	0	<1
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>250<10SodiumppmASTM D5185m>20056PotassiumppmASTM D5185m>20056Water%ASTM D50804>0.05▲0.1780.025▲0.065ppm WaterppmASTM D6304>500▲1780254.9▲653.0FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647>1300744546▲5442Particles >6µmASTM D7647>801273271Particles >14µmASTM D7647>20 <b>43</b> 812Particles >38µmASTM D7647>3100Oil CleanlinessISO 4406 (c)>/17/1318/17/1418/16/1220/13FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Phosphorus	ppm	ASTM D5185m		0	4	5
Silicon     ppm     ASTM D5185m     >25     0     <1     0       Sodium     ppm     ASTM D5185m     3     6     12       Potassium     ppm     ASTM D5185m     >20     0     5     6       Water     %     ASTM D6304     >0.05     ▲ 0.178     0.025     ▲ 0.065       ppm Water     ppm     ASTM D6304     >500     ▲ 1780     254.9     ▲ 653.0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     >1306     1596     13737       Particles >6µm     ASTM D7647     >1300     744     546     5442       Particles >14µm     ASTM D7647     >80     127     32     71       Particles >21µm     ASTM D7647     >20     43     8     12       Particles >38µm     ASTM D7647     >3     1     0     0       Particles >71µm     ASTM D7647     >3     1     0     0       Oil Cleanliness     ISO 4406 (c)     >/17/13     18/17/14     18/16/12     20/13 <th>Zinc</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>6</th> <th>4</th>	Zinc	ppm	ASTM D5185m		0	6	4
Sodium       ppm       ASTM D5185m       3       6       12         Potassium       ppm       ASTM D5185m       >20       0       5       6         Water       %       ASTM D6304       >0.05       ▲ 0.178       0.025       ▲ 0.065         ppm Water       ppm       ASTM D6304       >500       ▲ 1780       254.9       ▲ 653.0         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       1366       1596       13737         Particles >6µm       ASTM D7647       >1300       744       546       5442         Particles >14µm       ASTM D7647       >80       127       32       71         Particles >21µm       ASTM D7647       >20       43       8       12         Particles >38µm       ASTM D7647       >4       7       1       0         Particles >71µm       ASTM D7647       >3       1       0       0         Oll Cleanliness       ISO 4406 (c)       >/17/13       18/17/14       18/16/12       20/13         FLUID DE	CONTAMINANTS	6	method	limit/base	current	history1	history2
Potassium     ppm     ASTM D5185m     >20     0     5     6       Water     %     ASTM D6304     >0.05     ▲ 0.178     0.025     ▲ 0.065       ppm Water     ppm     ASTM D6304     >500     ▲ 1780     254.9     ▲ 653.0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     1366     1596     13737       Particles >6µm     ASTM D7647     >1300     744     546     5442       Particles >14µm     ASTM D7647     >80     127     32     71       Particles >21µm     ASTM D7647     >20     43     8     12       Particles >38µm     ASTM D7647     >4     7     1     0       Particles >71µm     ASTM D7647     >3     1     0     0       Oil Cleanliness     ISO 4406 (c)     >/17/13     18/17/14     18/16/12     20/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Silicon	ppm	ASTM D5185m	>25	0	<1	0
Water     %     ASTM D6304     >0.05     ▲ 0.178     0.025     ▲ 0.065       ppm Water     ppm     ASTM D6304     >500     ▲ 1780     254.9     ▲ 653.0       FLUID CLEANLINESS     method     limit/base     current     history1     history2       Particles >4µm     ASTM D7647     1366     1596     13737       Particles >6µm     ASTM D7647     >1300     744     546     5442       Particles >14µm     ASTM D7647     >80     127     32     71       Particles >21µm     ASTM D7647     >20     43     8     12       Particles >38µm     ASTM D7647     >4     7     1     0       Particles >71µm     ASTM D7647     >3     1     0     0       Oil Cleanliness     ISO 4406 (c)     >/17/13     18/17/14     18/16/12     20/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	Sodium	ppm	ASTM D5185m		3	6	12
ppm Water       ppm       ASTM D6304       >500       ▲ 1780       254.9       ▲ 653.0         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       1366       1596       13737         Particles >6µm       ASTM D7647       >1300       744       546       5442         Particles >14µm       ASTM D7647       >80       127       32       71         Particles >21µm       ASTM D7647       >20       43       8       12         Particles >38µm       ASTM D7647       >4       7       1       0         Particles >71µm       ASTM D7647       >3       1       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       18/17/14       18/16/12       20/13         FLUID DEGRADATION       method       limit/base       current       history1       history2	Potassium	ppm	ASTM D5185m	>20	0	5	6
FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D76471366159613737Particles >6µmASTM D7647>13007445465442Particles >14µmASTM D7647>801273271Particles >21µmASTM D7647>2043812Particles >38µmASTM D7647>4710Particles >71µmASTM D7647>3100Oil CleanlinessISO 4406 (c)>/17/1318/17/1418/16/1220/13FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Water	%	ASTM D6304	>0.05	<b>6</b> 0.178	0.025	▲ 0.065
Particles >4μm     ASTM D7647     1366     1596     13737       Particles >6μm     ASTM D7647     >1300     744     546     5442       Particles >14μm     ASTM D7647     >80     127     32     71       Particles >21μm     ASTM D7647     >20     43     8     12       Particles >38μm     ASTM D7647     >4     7     1     0       Particles >71μm     ASTM D7647     >3     1     0     0       Oil Cleanliness     ISO 4406 (c)     >/17/13     18/17/14     18/16/12     20/13	ppm Water	ppm	ASTM D6304	>500	<b>1780</b>	254.9	653.0
Particles >6µm     ASTM D7647     >1300     744     546     5442       Particles >14µm     ASTM D7647     >80     127     32     71       Particles >21µm     ASTM D7647     >20     43     8     12       Particles >38µm     ASTM D7647     >4     7     1     0       Particles >71µm     ASTM D7647     >3     1     0     0       Oil Cleanliness     ISO 4406 (c)     >/17/13     18/17/14     18/16/12     20/13       FLUID DEGRADATION     method     limit/base     current     history1     history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm     ASTM D7647     >80     127     32     71       Particles >21μm     ASTM D7647     >20     43     8     12       Particles >38μm     ASTM D7647     >4     7     1     0       Particles >38μm     ASTM D7647     >3     1     0     0       Particles >71μm     ASTM D7647     >3     1     0     0       Oil Cleanliness     ISO 4406 (c)     >/17/13     18/17/14     18/16/12     20/13       FLUID DEGRADATION     method     Imit/base     current     history1     history2	Particles >4µm		ASTM D7647		1366	1596	13737
Particles >14μm     ASTM D7647     >80     127     32     71       Particles >21μm     ASTM D7647     >20     43     8     12       Particles >38μm     ASTM D7647     >4     7     1     0       Particles >38μm     ASTM D7647     >3     1     0     0       Particles >71μm     ASTM D7647     >3     1     0     0       Oil Cleanliness     ISO 4406 (c)     >/17/13     18/17/14     18/16/12     20/13       FLUID DEGRADATION     method     Imit/base     current     history1     history2			ASTM D7647	>1300	744	546	▲ 5442
Particles >21μm       ASTM D7647       >20       43       8       12         Particles >38μm       ASTM D7647       >4       7       1       0         Particles >71μm       ASTM D7647       >3       1       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       18/17/14       18/16/12       20/13         FLUID DEGRADATION       method       limit/base       current       history1       history2			ASTM D7647	>80	<b>e</b> 127	32	71
Particles >38μm       ASTM D7647       >4       7       1       0         Particles >71μm       ASTM D7647       >3       1       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       18/17/14       18/16/12       20/13         FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >21µm		ASTM D7647	>20	<b>4</b> 3		12
Particles >71μm       ASTM D7647       >3       1       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       18/17/14       18/16/12       20/13         FLUID DEGRADATION       method       limit/base       current       history1       history2			ASTM D7647	>4	<b>7</b>		0
Oil Cleanliness       ISO 4406 (c)       >/17/13       18/17/14       18/16/12       20/13         FLUID DEGRADATION       method       limit/base       current       history1       history2			ASTM D7647	>3	-	0	0
						18/16/12	<b>2</b> 0/13
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
					0.31		

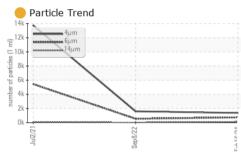
Contact/Location: Service Manager - UNIATH

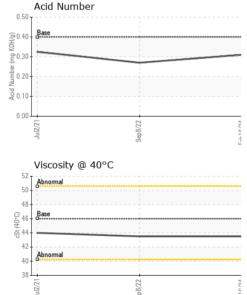


## **OIL ANALYSIS REPORT**



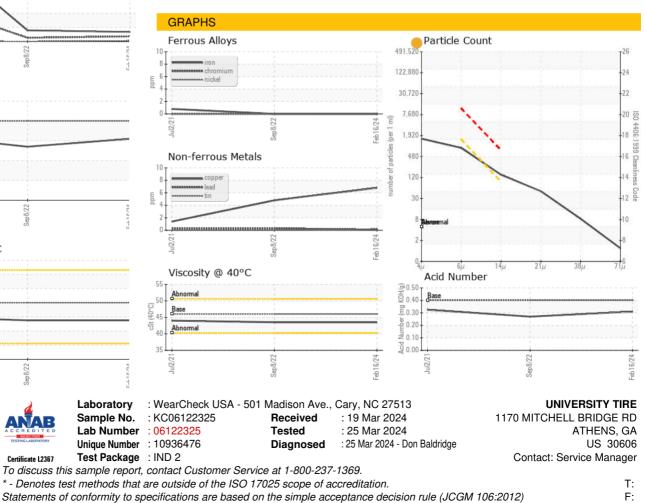






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>6.2%</b>	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.5	43.5	44.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

Bottom



Contact/Location: Service Manager - UNIATH