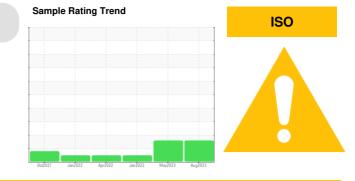


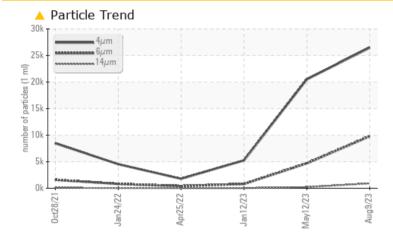
# **PROBLEM SUMMARY**



# Machine Id 7393976 (S/N 1078) Component

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

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

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

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	NORMAL				
Particles >6µm	ASTM D7647	>1300	<u> </u>	<b>4704</b>	810				
Particles >14µm	ASTM D7647	>80	<b>A</b> 913	<u> </u>	32				
Particles >21µm	ASTM D7647	>20	<u> </u>	<b>4</b> 3	4				
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u> </u>	🔺 22/19/15	20/17/12				

Customer Id: FLETRO Sample No.: KC125303 Lab Number: 06010854 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

## **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

# **HISTORICAL DIAGNOSIS**

## 12 May 2023 Diag: Don Baldridge



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 12 Jan 2023 Diag: Doug Bogart

25 Apr 2022 Diag: Jonathan Hester



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



/iew repor





Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

# Sample Rating Trend ISO

Machine Id 7393976 (S/N 1078) Component

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

# DIAGNOSIS

# Recommendation

No corrective action is recommended at this time. The 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.

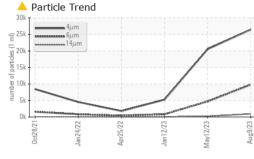
#### Fluid Condition

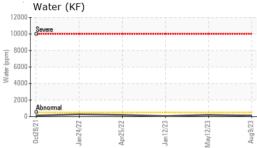
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

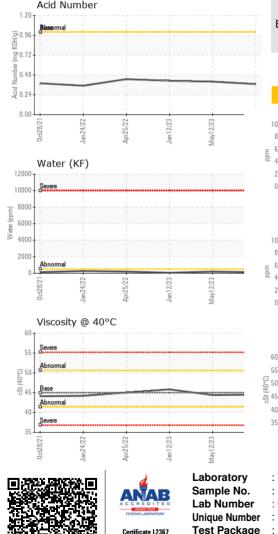
Sample Number         Client Info         KC125303         KC106378         KC10576           Sample Date         I         Client Info         09 Aug 2023         12 Aug 2023         12 Jan 2023           Machine Age         hrs         Client Info         14974         13906         11697           Oil Age         hrs         Client Info         N/A         Not Changed         Changed           Sample Status         I         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1         <1           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >10         0         0         0           Nickel         ppm         ASTM D5185m         >10         0         0         0           Silver         ppm         ASTM D5185m         >10         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0	SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Date         Client Info         09 Aug 2023         12 May 2023         12 Jan 2023           Machine Age         hrs         Client Info         14974         13906         11597           Oil Age         hrs         Client Info         0         2200         5000           Oil Changed         Client Info         N/A         Not Changed         Changed           Sample Status         Imethod         Imit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1							
Machine Age         hrs         Client Info         14974         13906         11697           Oil Age         hrs         Client Info         0         2200         5000           Oil Changed         Client Info         N/A         Not Changed         Normal         ABNORMAL         ABNORMAL         ABNORMAL         NORMAL	1						
Oil Age         hrs         Client Info         0         2200         5000           Oil Changed         Client Info         NA         Not Changed         Changed           Sample Status         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1		la una			•	Ş	
Oli Changed Sample Status         Client Info         N/A         Not Changed ABNORMAL         Changed NORMAL           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1	•				-		
Sample Status         method         Imit/base         current         history1         NORMAL           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1	-	nrs			-		
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         0         <1	ů.		Client Info			U	0
Iron         ppm         ASTM D5185m         >50         0         <1         <1           Chromium         ppm         ASTM D5185m         >3         0         0         0           Nickel         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Auminum         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >10         0         0         0           Vanadium         ppm         ASTM D5185m         10         0         0         0           Addminum         ppm         ASTM D5185m         0         0         0         0           Addminum         ppm         ASTM D5185m         0         0         0         0           Addminum         ppm         ASTM D5185m         0         0         0         0           Addition         ppm         ASTM D5185m         0         0         0         0	Sample Status				ABNORMAL	ABNORMAL	NORMAL
Chromium         ppm         ASTM D5185m         >10         0         0         0           Nickel         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >50         4         5         8           Tin         ppm         ASTM D5185m         >10         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Magnaese         ppm         ASTM D5185m         0         0         0         0           Magnesium         pm         ASTM D5185m         0         0         0         0	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185m         >3         0         0         0           Titanium         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >50         4         5         8           Tin         ppm         ASTM D5185m         >50         4         5         8           Tin         ppm         ASTM D5185m         >10         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           Adminum         ppm         ASTM D5185m         0         0         0         0           Boron         ppm         ASTM D5185m         0         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0 <t< td=""><td>Iron</td><td>ppm</td><td>ASTM D5185m</td><td>&gt;50</td><th>0</th><td>&lt;1</td><td>&lt;1</td></t<>	Iron	ppm	ASTM D5185m	>50	0	<1	<1
Titanium         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >10         0         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           Magnesium         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         10         1           Zalcium         ppm         ASTM D5185m         0         0         10         0 <td>Chromium</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;10</td> <th>0</th> <td>0</td> <td>0</td>	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver         ppm         ASTM D5185m         >2         0         0         0           Aluminum         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >50         4         5         8           Tin         ppm         ASTM D5185m         >10         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           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Magnessum         ppm         ASTM D5185m         0         0         0         0           Zaicum         ppm         ASTM D5185m         0         0         0         0           Zinc         ppm         ASTM D5185m         0         0         0         0 <td>Nickel</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;3</td> <th>0</th> <td>0</td> <td>0</td>	Nickel	ppm	ASTM D5185m	>3	0	0	0
Aluminum         ppm         ASTM D5185m         >10         0         0         0           Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >10         0         0         0           Vanadium         ppm         ASTM D5185m         >10         0         0         0           Cadmium         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           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Maganese         ppm         ASTM D5185m         0         0         0         0         0           Iciticum         ppm         ASTM D5185m         0         0         0         10         21           Conspervise         ppm         ASTM D5185m         0	Titanium	ppm	ASTM D5185m	>3	0	0	0
Lead         ppm         ASTM D5185m         >10         0         0         0           Copper         ppm         ASTM D5185m         >50         4         5         8           Tin         ppm         ASTM D5185m         >10         0         0         <1	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper         ppm         ASTM D5185m         >50         4         5         8           Tin         ppm         ASTM D5185m         >10         0         0         <1	Aluminum	ppm	ASTM D5185m	>10	0	0	0
Tin         ppm         ASTM D5185m         >10         0         0         <1           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           Barium         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0         0           Magnesium         ppm         ASTM D5185m         100         8         43         13           Calcium         ppm         ASTM D5185m         0         0         0         10           Zinc         ppm         ASTM D5185m         0         0         0         0           Solicon         ppm         ASTM D5185m         0         0         0         0           Solicon         ppm         ASTM D5185m         20         0         5	Lead	ppm	ASTM D5185m	>10	0	0	0
Tin       ppm       ASTM D5185m       >10       0       0       <1         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       0         Barium       ppm       ASTM D5185m       0       0       0       0       0         Molybdenum       ppm       ASTM D5185m       0       0       0       0       0         Magnesium       ppm       ASTM D5185m       0       0       0       0       0       0         Contadium       ppm       ASTM D5185m       0       0       0       10       10         Zinc       ppm       ASTM D5185m       0       0       0       0       0       0         Silicon       ppm       ASTM D5185m       0       0       0       0       0         Sodium       ppm       ASTM D5185m       >20       0       0       0       <	Copper	ppm	ASTM D5185m	>50	4	5	8
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0         0           Barium         ppm         ASTM D5185m         90         0         339         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0         0           Calcium         ppm         ASTM D5185m         0         0         0         10         8           Classing         ppm         ASTM D5185m         0         0         0         10         10           Zinc         ppm         ASTM D5185m         0         0         0         0         0           Silicon         ppm         ASTM D5185m         >25         0         0         0         0           Sodium         ppm         ASTM D5185m         >20         0         5         3           Story2	Tin	ppm	ASTM D5185m	>10	0	0	<1
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         90         0         39         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Marganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         0         0         0           Phosphorus         ppm         ASTM D5185m         0         0         0         10         21           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         0         0         0         0           Sodium         ppm         ASTM D5185m         >20         0         5         3           Vater         %         ASTM D5185m         >20         0         5         3           Paticles >4µm         ASTM D6304         >0.05         0.0111         0.02	Vanadium	ppm	ASTM D5185m		0	0	0
Boron         ppm         ASTM D5185m         0         0         0         0         0           Barium         ppm         ASTM D5185m         90         0         39         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         100         8         43         13           Calcium         ppm         ASTM D5185m         0         0         -1         0           Phosphorus         ppm         ASTM D5185m         0         0         0         10           Zinc         ppm         ASTM D5185m         0         0         0         0           Silicon         ppm         ASTM D5185m         >25         0         0         0           Sodium         ppm         ASTM D5185m         >20         0         5         3           Vater         %         ASTM D5185m         >20         0         5         3           FLUID CLEANLINESS         method         limit/base         current         history1	Cadmium		ASTM D5185m		0	0	0
Boron         ppm         ASTM D5185m         0         0         0         0         0           Barium         ppm         ASTM D5185m         90         0         39         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         100         8         43         13           Calcium         ppm         ASTM D5185m         0         0         -1         0           Phosphorus         ppm         ASTM D5185m         0         0         0         10           Zinc         ppm         ASTM D5185m         0         0         0         0           Silicon         ppm         ASTM D5185m         >25         0         0         0           Sodium         ppm         ASTM D5185m         >20         0         5         3           Vater         %         ASTM D5185m         >20         0         5         3           FLUID CLEANLINESS         method         limit/base         current         history1	ADDITIVES		method	limit/base	current	historv1	history2
Barium         ppm         ASTM D5185m         90         0         39         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Marganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         100         8         43         13           Calcium         ppm         ASTM D5185m         0         0         -<1				0			
Molybdenum         ppm         ASTM D5185m         0         0         0         0         0           Manganese         ppm         ASTM D5185m         100         8         43         13           Calcium         ppm         ASTM D5185m         100         8         43         13           Calcium         ppm         ASTM D5185m         0         0         0         <1         0           Phosphorus         ppm         ASTM D5185m         0         0         0         0         10           Zinc         ppm         ASTM D5185m         0         0         18         14         21           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         0           Sodium         ppm         ASTM D5185m         >20         0         5         3           Vater         %         ASTM D6304         >0.05         0.011         0.020         0.006           ppm         ASTM D7647         26470         20511         5254           Particles >4µm         ASTM D7647         >1300					-		
Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         100         8         43         13           Calcium         ppm         ASTM D5185m         0         0         <1					-		
Magnesium         ppm         ASTM D5185m         100         8         43         13           Calcium         ppm         ASTM D5185m         0         0         <1	-			0	-		-
Calcium         ppm         ASTM D5185m         0         0         <1         0           Phosphorus         ppm         ASTM D5185m         0         0         0         10           Zinc         ppm         ASTM D5185m         0         18         14         21           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         0           Sodium         ppm         ASTM D5185m         >25         0         0         0           Sodium         ppm         ASTM D5185m         >20         0         5         3           Vater         %         ASTM D5185m         >20         0         5         3           Water         ppm         ASTM D504         >0.05         0.011         0.020         0.006           ppmWater         ppm         ASTM D7647         26470         20511         5254           Particles >4µm         ASTM D7647         >1300         9807         4704         810           Particles >14µm         ASTM D7647         >20         228         43         4 </td <td>0</td> <td></td> <td></td> <td>100</td> <th>-</th> <td>÷</td> <td>÷</td>	0			100	-	÷	÷
Phosphorus         ppm         ASTM D5185m         0         0         0         0         10           Zinc         ppm         ASTM D5185m         0         18         14         21           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         0         0           Sodium         ppm         ASTM D5185m         >25         0         0         0         0           Sodium         ppm         ASTM D5185m         >20         0         5         3           Vater         %         ASTM D6304         >0.05         0.011         0.020         0.006           ppm Water         ppm         ASTM D6304         >500         118.5         202.3         60.8           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >1300         9807         4704         810           Particles >14µm         ASTM D7647         >80         913         220         32      Particles >21µm         ASTM D7647         20	0				-		
Zinc         ppm         ASTM D5185m         0         18         14         21           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         0           Sodium         ppm         ASTM D5185m         >25         0         0         0           Sodium         ppm         ASTM D5185m         >20         0         5         3           Potassium         ppm         ASTM D5185m         >20         0         5         3           Water         %         ASTM D6304         >0.05         0.011         0.020         0.006           ppm Water         ppm         ASTM D6304         >500         118.5         202.3         60.8           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >1300         9807         4704         810           Particles >6µm         ASTM D7647         >80         913         220         32           Particles >21µm         ASTM D7647         >20         228         43 <td></td> <td></td> <td></td> <td></td> <th>-</th> <td></td> <td>÷</td>					-		÷
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         0         0         0           Sodium         ppm         ASTM D5185m         >25         0         0         0           Sodium         ppm         ASTM D5185m         >20         0         5         3           Potassium         ppm         ASTM D5185m         >20         0         5         3           Water         %         ASTM D6304         >0.05         0.011         0.020         0.006           ppm Water         ppm         ASTM D6304         >500         118.5         202.3         60.8           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         >1300         9807         4704         810           Particles >6µm         ASTM D7647         >20         228         433         4           Particles >1µm         ASTM D7647         >20         228         433         4           Particles >71µm         ASTM D7647         >3         0         0 <td< td=""><td></td><td></td><td></td><td></td><th>-</th><td></td><td></td></td<>					-		
Silicon       ppm       ASTM D5185m       >25       0       0       0         Sodium       ppm       ASTM D5185m       >20       0       5       3         Potassium       ppm       ASTM D5185m       >20       0       5       3         Water       %       ASTM D6304       >0.05       0.011       0.020       0.006         ppm Water       ppm       ASTM D6304       >500       118.5       202.3       60.8         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       26470       20511       5254         Particles >6µm       ASTM D7647       >1300       9807       4704       810         Particles >1µm       ASTM D7647       >20       228       433       4         Particles >21µm       ASTM D7647       >20       228       433       4         Particles >38µm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       22/20/17       22/19/15       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1	-		ASTM D5185m		18	14	21
Sodium         ppm         ASTM D5185m         3         15         4           Potassium         ppm         ASTM D5185m         >20         0         5         3           Water         %         ASTM D6304         >0.05         0.011         0.020         0.006           ppm Water         ppm         ASTM D6304         >500         118.5         202.3         60.8           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         26470         20511         5254           Particles >6µm         ASTM D7647         >1300         9807         4704         810           Particles >14µm         ASTM D7647         >20         228         43         4           Particles >21µm         ASTM D7647         >20         228         43         4           Particles >38µm         ASTM D7647         >3         0         0         0           Oli Cleanliness         ISO 4406 (c)         >/17/13         22/20/17         22/19/15         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2 <th>CONTAMINANTS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D5185m         >20         0         5         3           Water         %         ASTM D6304         >0.05         0.011         0.020         0.006           ppm         ASTM D6304         >500         118.5         202.3         60.8           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         26470         20511         5254           Particles >6µm         ASTM D7647         >1300         9807         4704         810           Particles >14µm         ASTM D7647         >20         228         43         4           Particles >21µm         ASTM D7647         >20         228         43         4           Particles >38µm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         22/20/17         22/19/15         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2				>25	-		
Water       %       ASTM D6304       >0.05       0.011       0.020       0.006         ppm       Water       ppm       ASTM D6304       >500       118.5       202.3       60.8         FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       26470       20511       5254         Particles >6µm       ASTM D7647       >1300       9807       4704       810         Particles >14µm       ASTM D7647       >20       228       433       4         Particles >21µm       ASTM D7647       >20       228       433       4         Particles >38µm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       22/20/17       22/19/15       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history2		ppm			-		
ppm Water         ppm         ASTM D6304         >500         118.5         202.3         60.8           FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4µm         ASTM D7647         26470         20511         5254           Particles >6µm         ASTM D7647         >1300         9807         ▲ 4704         810           Particles >6µm         ASTM D7647         >20         ▲ 913         ▲ 220         32           Particles >14µm         ASTM D7647         >20         ▲ 228         ▲ 43         4           Particles >21µm         ASTM D7647         >4         3         1         0           Particles >38µm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         22/20/17         22/19/15         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2					-		
FLUID CLEANLINESS       method       limit/base       current       history1       history2         Particles >4µm       ASTM D7647       26470       20511       5254         Particles >6µm       ASTM D7647       >1300       9807       ▲ 4704       810         Particles >6µm       ASTM D7647       >80       ▲ 913       ▲ 220       32         Particles >14µm       ASTM D7647       >20       ▲ 228       ▲ 43       4         Particles >21µm       ASTM D7647       >20       ▲ 228       ▲ 43       4         Particles >38µm       ASTM D7647       >4       3       1       0         Particles >71µm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       ▲ 22/20/17       ▲ 22/19/15       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history2		%	ASTM D6304	>0.05		0.020	0.006
Particles >4μm       ASTM D7647       26470       20511       5254         Particles >6μm       ASTM D7647       >1300       9807       ▲ 4704       810         Particles >14μm       ASTM D7647       >80       ▲ 913       ▲ 220       32         Particles >21μm       ASTM D7647       >20       ▲ 228       ▲ 43       4         Particles >38μm       ASTM D7647       >4       3       1       0         Particles >38μm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       ▲ 22/20/17       ▲ 22/19/15       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history2	ppm Water	ppm	ASTM D6304	>500	118.5	202.3	60.8
Particles >6μm       ASTM D7647       >1300       ▲ 9807       ▲ 4704       810         Particles >14μm       ASTM D7647       >80       ▲ 913       ▲ 220       32         Particles >21μm       ASTM D7647       >20       ▲ 228       ▲ 43       4         Particles >38μm       ASTM D7647       >4       3       1       0         Particles >38μm       ASTM D7647       >4       3       1       0         Particles >71μm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       ▲ 22/20/17       ▲ 22/19/15       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14µm       ASTM D7647       >80       ▲ 913       ▲ 220       32         Particles >21µm       ASTM D7647       >20       ▲ 228       ▲ 43       4         Particles >38µm       ASTM D7647       >4       3       1       0         Particles >71µm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       ▲ 22/20/17       ▲ 22/19/15       20/17/12         FLUID DEGRADATION       method       limit/base       current       history1       history2	Particles >4µm		ASTM D7647		26470	20511	5254
Particles >21μm         ASTM D7647         >20         228         43         4           Particles >38μm         ASTM D7647         >4         3         1         0           Particles >37μm         ASTM D7647         >3         0         0         0           Particles >71μm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         22/20/17         22/19/15         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>4</b> 704	810
Particles >38μm         ASTM D7647         >4         3         1         0           Particles >71μm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         22/20/17         22/19/15         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >14µm		ASTM D7647	>80	<mark>/</mark> 913	<b>A</b> 220	32
Particles >71μm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         ▲ 22/20/17         ▲ 22/19/15         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >21µm		ASTM D7647	>20	<u> </u>	<b>4</b> 3	4
Oil Cleanliness         ISO 4406 (c)         >/17/13         ▲ 22/20/17         ▲ 22/19/15         20/17/12           FLUID DEGRADATION         method         limit/base         current         history1         history2	Particles >38µm		ASTM D7647	>4	3	1	0
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0	0	0
			ISO 4406 (c)	>/17/13	<b>A</b> 22/20/17	▲ 22/19/15	20/17/12
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.37 0.40 0.41	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.37	0.40	0.41



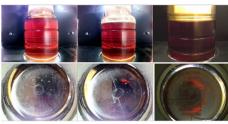
# **OIL ANALYSIS REPORT**



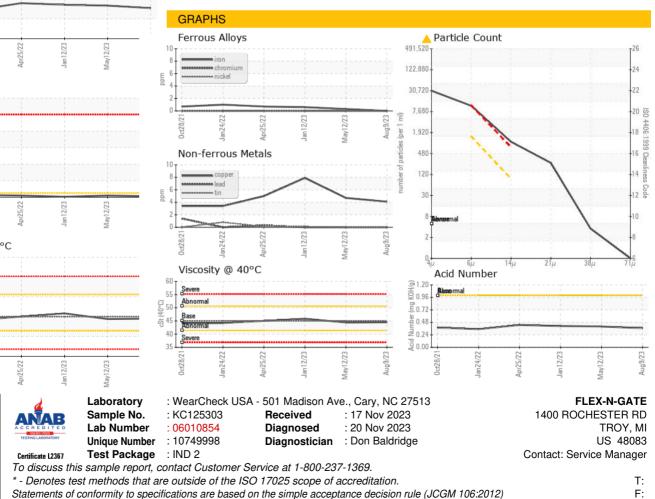




Color



Bottom



Contact/Location: Service Manager - FLETRO

VISUAL method limit/base history1 history2 current NONE NONE White Metal \*Visual NONE NONE scalar Yellow Metal NONE NONE NONE NONE scalar \*Visual Precipitate scalar \*Visual NONE NONE NONE NONE Silt scalar \*Visual NONE NONE NONE NONE NONE Debris \*Visual NONE LIGHT NONE scalar NONE Sand/Dirt scalar \*Visual NONE NONE NONE NORML Appearance NORML NORML NORML scalar \*Visua \*Visual NORML NORML NORML Odor scalar NORML \*Visual **Emulsified Water** scalar >0.05 NEG NEG NEG Free Water scalar \*Visual NEG NEG NEG FLUID PROPERTIES method limit/base current history history2 Visc @ 40°C cSt ASTM D445 45 44.5 44.4 45.83 SAMPLE IMAGES method limit/base historv1 history2 current