

#### RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL		
Particles >6µm	ASTM D7647	>1300	<u> </u>	<b>A</b> 2439	<b>4</b> 2451		
Particles >14µm	ASTM D7647	>80	<b>A</b> 997	<b>A</b> 224	<b>1</b> 80		
Particles >21µm	ASTM D7647	>20	<u> </u>	<u> </u>	42		
Oil Cleanliness	ISO 4406 (c)	>/17/13	<b>A</b> 23/22/17	<b>1</b> 8/15	🔺 18/15		

Customer Id: KROAUR Sample No.: KCP41313 Lab Number: 05644888 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

# HISTORICAL DIAGNOSIS



# 10 Feb 2022 Diag: Don Baldridge

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.



# 23 Aug 2021 Diag: Don Baldridge



The oil change at the time of sampling has been noted. We recommend you service the filters on this component. 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.

# 23 Sep 2020 Diag: Angela Borella



Oil and 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.



view report







# **OIL ANALYSIS REPORT**

#### Machine Id **KAESER 6427839** Component

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

## DIAGNOSIS

#### Recommendation

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

# Wear

All component wear rates are normal.

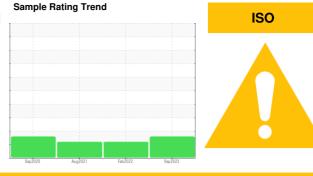
# Contamination

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.

Report Id: KROAUR [WUSCAR] 05644888 (Generated: 09/20/2022 13:10:22)



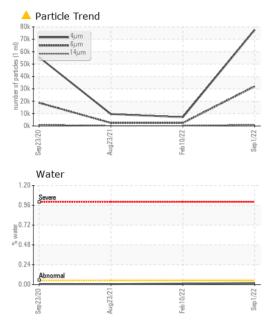
Machine Age         hrs         Image         Image <thimage< th="">         Image         Image</thimage<>	SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history 1	history 2
Machine Age         hrs         Image         Image <thimage< th="">         Image         <thimage< th=""></thimage<></thimage<>	Sample Number				KCP41313	KCP48662	KCP37833
Machine Age Oil Age Oil Age NrsIrsIce166001426612555Oil Age Age Sample StatusIrsIceIce23420003164Oil Changed Sample StatusIrsIceChanged ABNORMALABNORMALABNORMALWEAR METALSmethodImit/basecurrentNistory 1Nistory 2IronppmASTM 0518m>50<100NickelppmASTM 0518m>30000NickelppmASTM 0518m>20<1<11ItaniumppmASTM 0518m>10000SilverppmASTM 0518m>10<100CopperppmASTM 0518m>10<100AntimonyppmASTM 0518m>10<100VanadiumpmASTM 0518m0000AdminumpmASTM 0518m0000AdminumpmASTM 0518m0000AdminumpmASTM 0518m0000AdminumpmASTM 0518m0000AdminumpmASTM 0518m0000AdminumpmASTM 0518m0000AdminumpmASTM 0518m0000AdminumpmASTM 0518m0000 <th>Sample Date</th> <th></th> <th></th> <th></th> <th>01 Sep 2022</th> <th>10 Feb 2022</th> <th>23 Aug 2021</th>	Sample Date				01 Sep 2022	10 Feb 2022	23 Aug 2021
Oil Age         hrs         Image         2334         2000         3164           Oil Changed         ABNORMAL           WEAR METALS         method         limit/base         current         history 1         history 1         history 2           Ion         ppm         ASTM D5185m         >50         <1         0         0         0           Nickel         ppm         ASTM D5185m         >3         0         0         0         0           Silver         ppm         ASTM D5185m         >2         <1         <1         <1         0	Machine Age	hrs			-	14266	12555
Oil Changed Sample Status         Image Method         Changed ABNORMAL ABNORMAL         Changed ABNORMAL ABNORMAL         Changed ABNORMAL ABNORMAL           WEAR METALS         method         limit/base         current         history 1         history 2           Iron         ppm         ASTM D5185m         >50         <1         0         0           Chromium         ppm         ASTM D5185m         >3         0         0         0           Nickel         ppm         ASTM D5185m         >3         0         0         0           Aluminum         ppm         ASTM D5185m         >2         <1         <1         0           Lead         ppm         ASTM D5185m         >10         0         <1         0         0           Antimony         ppm         ASTM D5185m         >50         2         2         7         7           Tin         ppm         ASTM D5185m         0         0         0         0         0           Antimony         ppm         ASTM D5185m         0         0         0         0         0           Addinium         ppm         ASTM D5185m         0         0         0         0         0	-	hrs			2334	2000	3164
Sample Status         method         Imit/base         current         history 1         ABNORMAL           WEAR METALS         method         limit/base         current         history 1         history 2           Iron         ppm         ASTM D5185n         >50         <1         0         0           Nickel         ppm         ASTM D5185n         >3         0         0         0           Titanium         ppm         ASTM D5185n         >2         <1         <1         0           Aluminum         ppm         ASTM D5185n         >2         <1         <1         0           Lead         ppm         ASTM D5185n         >10         <1         0         0         0           Copper         ppm         ASTM D5185n         >10         <1         0         0           Cadmium         ppm         ASTM D5185n         0         0         0         0           Cadmium         ppm         ASTM D5185n         0         0         0         0           Cadmium         ppm         ASTM D5185n         0         0         0         0           Cadmium         ppm         ASTM D5185n         0         1	•				Changed	Changed	Changed
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Iron         ppm         ASTM D5185m         >50         <1	WEAR METALS		method	limit/base	current	history 1	history 2
Chromium         ppm         ASTM D5185m         >3         0         0         0           Nickel         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >3         0         0         0           Aluminum         ppm         ASTM D5185m         >10         <1         <1         0           Lead         ppm         ASTM D5185m         >10         <1         0         0         0           Attimony         ppm         ASTM D5185m         >10         <1         0         0         0           Attimony         ppm         ASTM D5185m         0         0         0         0         0           Attimony         ppm         ASTM D5185m         0         0         0         0         0           Attimony         ppm         ASTM D5185m         0         0         0         0         0           Attimony         ppm         ASTM D5185m         0         0         0         0         0           Attimony         ppm         ASTM D5185m         0         2         4         0         0         0         0 </th <th>Iron</th> <th>nnm</th> <th>ASTM D5185m</th> <th><u>⊳50</u></th> <th><u>_1</u></th> <th></th> <th></th>	Iron	nnm	ASTM D5185m	<u>⊳50</u>	<u>_1</u>		
Nickel         ppm         ASTM D5185m         >3         0         0         0           Titanium         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >10         <1	-						
Titanium         ppm         ASTM D5185m         >3         0         0         0           Silver         ppm         ASTM D5185m         >2         <1					-		
Silver         ppm         ASTM D5185m         >2         <1         <1         <1           Aluminum         ppm         ASTM D5185m         >10         <1					-		
Aluminum         ppm         ASTM D5185m         >10         <1         <1         <1         0           Lead         ppm         ASTM D5185m         >10         0         <1					-		
Lead         ppm         ASTM D5185m         >10         0         <1         0           Copper         ppm         ASTM D5185m         >50         2         2         7           Tin         ppm         ASTM D5185m         >10         <1							
Copper         ppm         ASTM D5185m         >50         2         2         7           Tin         ppm         ASTM D5185m         >10         <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           ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185m         0         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0         0           Marganese         ppm         ASTM D5185m         0         2         4         0           Calcium         ppm         ASTM D5185m         0         2         4         0           Jinc         ppm         ASTM D5185m         0         2         4         0           Silicon         ppm         ASTM D5185m         23500         17902         17721         18022           CONTAMINANTS         method         limit/base         current<					-		
Antimony         ppm         ASTM D5185m          0         0           Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185m         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Manganesum         ppm         ASTM D5185m         0         2         4         0           Manganesum         ppm         ASTM D5185m         0         2         <1					_		
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185m         0         0         0         15           Barium         ppm         ASTM D5185m         90         17         36         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Marganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         2         4         0           Calcium         ppm         ASTM D5185m         0         2         4         0           Sulfur         ppm         ASTM D5185m         0         2         <1				>10			
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185m         0         0         0         0         15           Barium         ppm         ASTM D5185m         90         17         36         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0         0           Marganese         ppm         ASTM D5185m         0         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         <1         <1         0           Calcium         ppm         ASTM D5185m         0         <1         <1         0           Magnesium         ppm         ASTM D5185m         0         <1         <1         0           Sulfur         ppm         ASTM D5185m         0         2         4         0           Sulfur         ppm         ASTM D5185m         2.5         0         <1         0           Solicon         ppm         ASTM D5185m         >2.0	•						
ADDITIVES         method         limit/base         current         history 1         history 2           Boron         ppm         ASTM D5185m         0         0         0         0         15           Barium         ppm         ASTM D5185m         0         0         0         0         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0         0           Magnesium         ppm         ASTM D5185m         0         51         81         4           Calcium         ppm         ASTM D5185m         0         <1					-		
Boron         ppm         ASTM D5185m         0         0         0         15           Barium         ppm         ASTM D5185m         90         17         36         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Manganese         ppm         ASTM D5185m         100         51         81         4           Calcium         ppm         ASTM D5185m         100         <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         90         17         36         0           Molybdenum         ppm         ASTM D5185m         0         0         0         0           Maganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         ppm         ASTM D5185m         100         51         81         4           Calcium         ppm         ASTM D5185m         0         <1         <1         0           Phosphorus         ppm         ASTM D5185m         0         2         4         0           Zinc         ppm         ASTM D5185m         0         5         2         <1           Sulfur         ppm         ASTM D5185m         0         5         2         <1           Sulfur         ppm         ASTM D5185m         23500         17902         17721         18022           CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185m         >20         0         3         0           Sodium         ppm         ASTM D5185m         >20         0.012	ADDITIVES		method	limit/base	current	history 1	history 2
Molybdenum         ppm         ASTM D5185m         0         0         0         0         0         0           Manganese         ppm         ASTM D5185m         100         51         81         4           Calcium         ppm         ASTM D5185m         0         <1         <1         0           Phosphorus         ppm         ASTM D5185m         0         2         4         0           Zinc         ppm         ASTM D5185m         0         5         2         <1           Sulfur         ppm         ASTM D5185m         0         5         2         <1           Sulfur         ppm         ASTM D5185m         23500         17902         17721         18022           CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185m         >20         0         3         0           Sodium         ppm         ASTM D5185m         >20         0         3         0           Pottassium         ppm         ASTM D6304         >0.05         0.018         0.012         0.006           ppm         ASTM D647         >100 <th>Boron</th> <td>ppm</td> <td>ASTM D5185m</td> <td>0</td> <th>0</th> <td>0</td> <td>15</td>	Boron	ppm	ASTM D5185m	0	0	0	15
Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         100         51         81         4           Calcium         ppm         ASTM D5185m         0         <1	Barium	ppm	ASTM D5185m	90	17	36	0
Magnesium         ppm         ASTM D5185m         100         51         81         4           Calcium         ppm         ASTM D5185m         0         <1	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium       ppm       ASTM D5185m       0       <1       <1       0         Phosphorus       ppm       ASTM D5185m       0       2       4       0         Zinc       ppm       ASTM D5185m       0       5       2       <1	Manganese	ppm	ASTM D5185m		0	0	0
Phosphorus         ppm         ASTM D5185m         0         2         4         0           Zinc         ppm         ASTM D5185m         0         5         2         <1           Sulfur         ppm         ASTM D5185m         23500         17902         17721         18022           CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185m         >25         0         <1         0           Sodium         ppm         ASTM D5185m         >25         0         <1         0           Sodium         ppm         ASTM D5185m         >20         0         3         0           Vater         %         ASTM D5185m         >20         0         3         0           Water         %         ASTM D5044         >0.05         0.018         0.012         0.006           ppm         ASTM D7647         >100         185.1         125.2         65.8           FLUID CLEANLINESS         method         limit/base         current         history 1         history 2           Particles >4µm         ASTM D7647         >1300         32016         24	Magnesium	ppm	ASTM D5185m	100	51	81	4
Zinc       ppm       ASTM D5185m       0       5       2       <1         Sulfur       ppm       ASTM D5185m       23500       17902       17721       18022         CONTAMINANTS       method       limit/base       current       history 1       history 2         Silicon       ppm       ASTM D5185m       >25       0       <1       0         Sodium       ppm       ASTM D5185m       >25       0       <1       0         Sodium       ppm       ASTM D5185m       >20       0       3       0         Vater       %       ASTM D6304       >0.05       0.018       0.012       0.006         ppm Water       ppm       ASTM D6304       >500       185.1       125.2       65.8         FLUID CLEANLINESS       method       limit/base       current       history 1       history 2         Particles >4µm       ASTM D7647       >1300       32016       2439       2451         Particles >6µm       ASTM D7647       >1300       32016       2439       2451         Particles >1µm       ASTM D7647       >20       62       56       42         Particles >21µm       ASTM D7647       >20 <t< td=""><th>Calcium</th><td>ppm</td><td>ASTM D5185m</td><td>0</td><th>&lt;1</th><td>&lt;1</td><td>0</td></t<>	Calcium	ppm	ASTM D5185m	0	<1	<1	0
Zinc         ppm         ASTM D5185m         0         5         2         <1	Phosphorus	ppm	ASTM D5185m	0	2	4	0
CONTAMINANTS         method         limit/base         current         history 1         history 2           Silicon         ppm         ASTM D5185m         >25         0         <1         0           Sodium         ppm         ASTM D5185m         >25         0         <1         0           Sodium         ppm         ASTM D5185m         >20         0         3         0           Potassium         ppm         ASTM D6304         >0.05         0.018         0.012         0.006           ppm Water         ppm         ASTM D6304         >500         185.1         125.2         65.8           FLUID CLEANLINESS         method         limit/base         current         history 1         history 2           Particles >4µm         ASTM D7647         77708         7105         9616           Particles >6µm         ASTM D7647         >1300         32016         2439         2451           Particles >14µm         ASTM D7647         >20         62         56         42           Particles >21µm         ASTM D7647         >20         62         56         42           Particles >38µm         ASTM D7647         >3         0         0         0 </th <th></th> <th>ppm</th> <th>ASTM D5185m</th> <th>0</th> <th>5</th> <th>2</th> <th>&lt;1</th>		ppm	ASTM D5185m	0	5	2	<1
Silicon       ppm       ASTM D5185m       >25       0       <1	Sulfur				17902	17721	18022
Silicon       ppm       ASTM D5185m       >25       0       <1	CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Sodium         ppm         ASTM D5185m         19         19         2           Potassium         ppm         ASTM D5185m         >20         0         3         0           Water         %         ASTM D6304         >0.05         0.018         0.012         0.006           ppm Water         ppm         ASTM D6304         >500         185.1         125.2         65.8           FLUID CLEANLINESS         method         limit/base         current         history 1         history 2           Particles >4µm         ASTM D7647         77708         7105         9616           Particles >6µm         ASTM D7647         >1300         32016         2439         2451           Particles >14µm         ASTM D7647         >80         997         224         180           Particles >21µm         ASTM D7647         >20         62         56         42           Particles >38µm         ASTM D7647         >3         0         0         0           Oli Cleanliness         ISO 4406 (c)         >/17/13         23/22/17         18/15         18/15           FLUID DEGRADATION         method         limit/base         current         history 1         history 2 <th>Silicon</th> <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	
Potassium       ppm       ASTM D5185m       >20       0       3       0         Water       %       ASTM D6304       >0.05       0.018       0.012       0.006         ppm       Water       ppm       ASTM D6304       >500       185.1       125.2       65.8         FLUID CLEANLINESS       method       limit/base       current       history 1       history 2         Particles >4µm       ASTM D7647       77708       7105       9616         Particles >6µm       ASTM D7647       >1300       32016       2439       2451         Particles >14µm       ASTM D7647       >80       997       224       180         Particles >21µm       ASTM D7647       >20       62       56       42         Particles >38µm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       23/22/17       18/15       18/15         FLUID DEGRADATION       method       limit/base       current       history 1       history 2				220			
Water         %         ASTM D6304         >0.05         0.018         0.012         0.006           ppm Water         ppm         ASTM D6304         >500         185.1         125.2         65.8           FLUID CLEANLINESS         method         limit/base         current         history 1         history 2           Particles >4µm         ASTM D7647         77708         7105         9616           Particles >6µm         ASTM D7647         >1300         32016         2439         2451           Particles >14µm         ASTM D7647         >80         997         224         180           Particles >21µm         ASTM D7647         >20         62         56         42           Particles >38µm         ASTM D7647         >3         0         0         0           Particles >71µm         ASTM D7647         >3         0         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         23/22/17         18/15         18/15           FLUID DEGRADATION         method         limit/base         current         history 1         history 2				>20	-		
ppm Water         ppm         ASTM D6304         >500         185.1         125.2         65.8           FLUID CLEANLINESS         method         limit/base         current         history 1         history 2           Particles >4µm         ASTM D7647         77708         7105         9616           Particles >6µm         ASTM D7647         >1300         32016         2439         2451           Particles >14µm         ASTM D7647         >80         997         224         180           Particles >21µm         ASTM D7647         >20         62         56         42           Particles >38µm         ASTM D7647         >4         1         0           Particles >71µm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         23/22/17         18/15         18/15           FLUID DEGRADATION         method         limit/base         current         history 1         history 2							
FLUID CLEANLINESS       method       limit/base       current       history 1       history 2         Particles >4µm       ASTM D7647       77708       7105       9616         Particles >6µm       ASTM D7647       >1300       32016       2439       2451         Particles >14µm       ASTM D7647       >80       997       224       180         Particles >21µm       ASTM D7647       >20       62       56       42         Particles >21µm       ASTM D7647       >4       1       0         Particles >38µm       ASTM D7647       >4       1       0         Particles >71µm       ASTM D7647       >3       0       0       0         Oli Cleanliness       ISO 4406 (c)       >/17/13       23/22/17       18/15       18/15         FLUID DEGRADATION       method       limit/base       current       history 1       history 2							
Particles >4µm       ASTM D7647       77708       7105       9616         Particles >6µm       ASTM D7647       >1300       32016       2439       2451         Particles >14µm       ASTM D7647       >80       997       224       180         Particles >21µm       ASTM D7647       >20       62       56       42         Particles >21µm       ASTM D7647       >4       1       1       0         Particles >38µm       ASTM D7647       >4       1       1       0         Particles >71µm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       23/22/17       18/15       18/15         FLUID DEGRADATION       method       limit/base       current       history 1       history 2							
Particles >6µm       ASTM D7647       >1300       ▲ 32016       ▲ 2439       ▲ 2451         Particles >14µm       ASTM D7647       >80       ▲ 997       ▲ 224       ▲ 180         Particles >21µm       ASTM D7647       >20       ▲ 62       ▲ 56       ▲ 42         Particles >38µm       ASTM D7647       >4       1       1       0         Particles >38µm       ASTM D7647       >4       1       1       0         Particles >71µm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       ▲ 23/22/17       ▲ 18/15       ▲ 18/15         FLUID DEGRADATION       method       limit/base       current       history 1       history 2		-200		-11110-0436			
Particles >14µm       ASTM D7647       >80       ▲ 997       ▲ 224       ▲ 180         Particles >21µm       ASTM D7647       >20       ▲ 62       ▲ 56       ▲ 42         Particles >38µm       ASTM D7647       >4       1       1       0         Particles >71µm       ASTM D7647       >3       0       0       0         Oil Cleanliness       ISO 4406 (c)       >/17/13       ▲ 23/22/17       ▲ 18/15       ▲ 18/15         FLUID DEGRADATION       method       limit/base       current       history 1       history 2				1000			
Particles >21µm         ASTM D7647         >20         ▲ 62         ▲ 56         ▲ 42           Particles >38µm         ASTM D7647         >4         1         1         0           Particles >38µm         ASTM D7647         >4         1         0         0           Particles >71µm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         23/22/17         18/15         18/15           FLUID DEGRADATION         method         limit/base         current         history 1         history 2	•						
Particles >38μm         ASTM D7647         >4         1         1         0           Particles >71μm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         23/22/17         18/15         18/15           FLUID DEGRADATION         method         limit/base         current         history 1         history 2							
Particles >71μm         ASTM D7647         >3         0         0         0           Oil Cleanliness         ISO 4406 (c)         >/17/13         23/22/17         ▲ 18/15         ▲ 18/15           FLUID DEGRADATION         method         limit/base         current         history 1         history 2	•						
Oil Cleanliness       ISO 4406 (c) >/17/13       23/22/17       18/15       18/15         FLUID DEGRADATION       method       limit/base       current       history 1       history 2							
FLUID DEGRADATION method limit/base current history 1 history 2							
	Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	▲ 18/15	<u> </u>
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.32 0.38 0.391	FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.32	0.38	0.391

Contact/Location: Service Manager - KROAUR

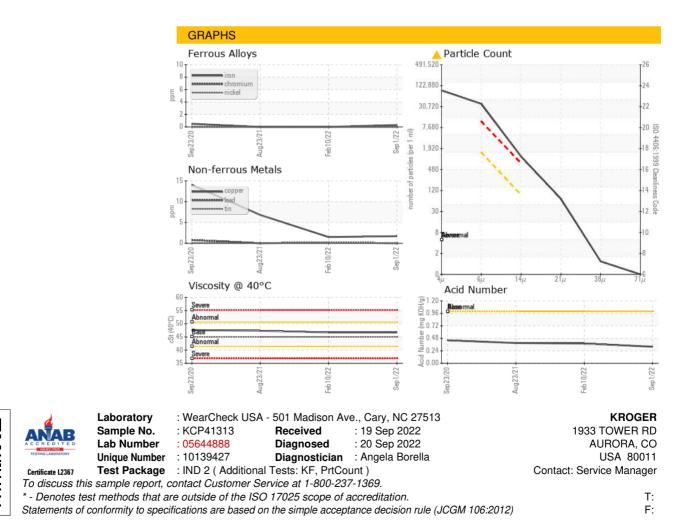


Built for a lifetime.

# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	LIGHT	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	LIGHT
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	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	46.7	46.7	47.3
SAMPLE IMAGES	S	method	limit/base	current	history 1	history 2
Color						
Bottom				()	$(\mathbf{O})$	



Contact/Location: Service Manager - KROAUR