

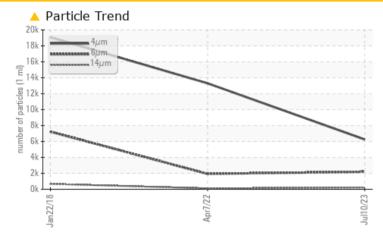
PROBLEM SUMMARY

KAESER AIRCENTER SM 15 2811028 (S/N 1013)

Compressor



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 **ATTENTION** ABNORMAL Particles >6µm ASTM D7647 >1300 2198 **1**929 ▲ 7235 Particles >14µm ASTM D7647 >80 220 **112** ▲ 675 Particles >21µm ASTM D7647 >20 58 33 **1**63 **Oil Cleanliness** ISO 4406 (c) >--/17/13 **A 20/18/15 1**8/14 ▲ 20/17

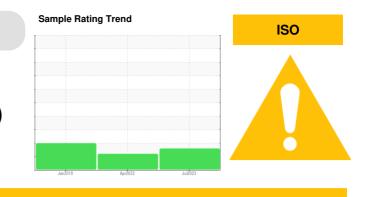
Customer Id: SIPJAC Sample No.: KCPA004572 Lab Number: 05901340 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

07 Apr 2022 Diag: Don Baldridge



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 moderate 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.



22 Jan 2018 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. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Machine Id KAESER AIRCENTER SM 15 2811028 (S/N 1013) Component

Compressor Fluid

KAESER SIGMA (OEM) S-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

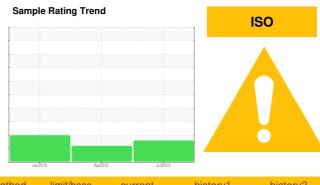
All component wear rates are normal.

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.

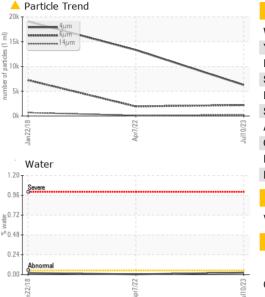


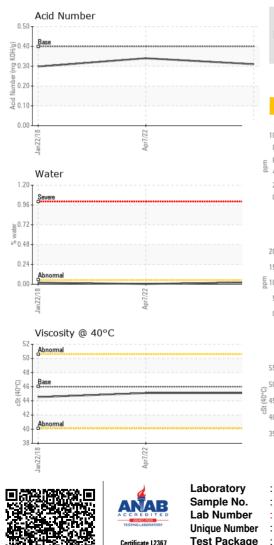
| Sample Date Client Info 10 Jul 2023 07 Apr 2022 22 Jan 20 Machine Age hrs Client Info 26704 25117 18420 Oil Age hrs Client Info 0 6697 1682 0 Oil Age Client Info NA Changed Changed Changed Sample Status method limit/base current history1 history1 Iron ppm ASTM D5185m >50 <1 <1 <1 Chromium ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >10 2 0 <1 0 Autominum ppm ASTM D5185m >10 0 0 <1 0 Autominum ppm ASTM D5185m >10 0 0 0 0 Cadamium ppm ASTM D5185m | SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|---|------------------|----------|-------------|------------|-------------|-------------|-------------|
| Machine Age hrs Client Info 26704 25117 18420 Oil Age hrs Client Info 0 6697 1682 Oil Changed Client Info N/A Changed Changed Sample Status method Imit/base current history1 ABNORMAL WEAR METALS method Imit/base current history1 history1 Iron ppm ASTM D5185m >50 <1 <1 <1 Chromium ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >2 0 <1 0 Lead ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>KCPA004572</th><th>KCP44773</th><th>KCP08355</th></t<> | Sample Number | | Client Info | | KCPA004572 | KCP44773 | KCP08355 |
| Oil Age hrs Client Info N/A Changed Changed Sample Status Client Info N/A Changed Changed Sample Status method limil/base current history1 ABNORMAL WEAR METALS method limil/base current history1 nistory1 Iron ppm ASTM D5185m >50 <1 <1 <1 Chromium ppm ASTM D5185m >30 0 0 0 Nickel ppm ASTM D5185m >30 0 0 0 Silver ppm ASTM D5185m >10 0 0 <11 0 Aluminum ppm ASTM D5185m >10 0 0 <11 0 Aluminum ppm ASTM D5185m >10 0 0 <11 0 Antimony ppm ASTM D5185m 0 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 0 Antimony ppm | Sample Date | | Client Info | | 10 Jul 2023 | 07 Apr 2022 | 22 Jan 2018 |
| Oil Changed Sample Status Client Info N/A Changed ABNORMAL Changed ATTENTION Changed ABNORMAL WEAR METALS method limit/base current history1 ABNORMAL Iron ppm ASTM D5185m >50 <1 <1 <1 Chromium ppm ASTM D5185m >30 0 0 0 Nickel ppm ASTM D5185m >30 0 0 0 Silver ppm ASTM D5185m >30 0 0 0 Aluminum ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >10 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magneseium ppm ASTM D5185m 0 0 0 0 Molybdenum <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>26704</th> <th>25117</th> <th>18420</th> | Machine Age | hrs | Client Info | | 26704 | 25117 | 18420 |
| Sample Status Image: status method Imit/base current history1 ABNORMAL WEAR METALS method limit/base current history1 history1 history1 Iron ppm ASTM D5185m >50 <1 <1 <1 <1 Chromium ppm ASTM D5185m >30 0 0 0 Nickel ppm ASTM D5185m >30 0 0 0 Silver ppm ASTM D5185m >20 <11 0 0 Lead ppm ASTM D5185m >10 0 0 0 0 Copper ppm ASTM D5185m >10 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 ADDITIVES method limit/base current history1 history1 nistory1 Boron ppm ASTM D5185m 0 0 <t< th=""><th>Oil Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th>6697</th><th>1682</th></t<> | Oil Age | hrs | Client Info | | 0 | 6697 | 1682 |
| WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 <1 <1 <1 Chromium ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 <1 0 Aluminum ppm ASTM D5185m >10 0 0 <1 Lead ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >10 0 0 <1 Chanimony ppm ASTM D5185m 10 0 0 0 Cadmium ppm ASTM D5185m 10 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 <td< th=""><th>Oil Changed</th><th></th><th>Client Info</th><th></th><th>N/A</th><th>Changed</th><th>Changed</th></td<> | Oil Changed | | Client Info | | N/A | Changed | Changed |
| Iron ppm ASTM D5185m >50 <1 | Sample Status | | | | ABNORMAL | ATTENTION | ABNORMAL |
| Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 <1 0 Aluminum ppm ASTM D5185m >10 2 0 0 0 Lead ppm ASTM D5185m >10 0 0 <1 0 Copper ppm ASTM D5185m >10 0 0 <1 0 Antimony ppm ASTM D5185m >10 0 0 <1 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 <1 0 Aluminum ppm ASTM D5185m >10 2 0 0 Lead ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >10 0 0 <1 Attimony ppm ASTM D5185m >10 0 0 <1 Vanadium ppm ASTM D5185m 10 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 0 Malganesium ppm ASTM D5185m 2 0 0 <td< th=""><th>Iron</th><th>ppm</th><th>ASTM D5185m</th><th>>50</th><th><1</th><th><1</th><th><1</th></td<> | Iron | ppm | ASTM D5185m | >50 | <1 | <1 | <1 |
| Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 <1 0 Aluminum ppm ASTM D5185m >10 2 0 0 Lead ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >50 9 20 4 Tin ppm ASTM D5185m >10 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 ADDTIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 2 0 0 Magnesium ppm ASTM D5185m 1 4 3 3 <th>Chromium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>10</th> <th>0</th> <th>0</th> <th>0</th> | Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Silver ppm ASTM D5185m >2 0 <1 | Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum ppm ASTM D5185m >10 2 0 0 Lead ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >50 9 20 4 Tin ppm ASTM D5185m >10 0 0 <1 Antimony 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 history1 Boron ppm ASTM D5185m 90 0 4 0 Molybdenum ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 2 0 0 0 Magnesium ppm ASTM D5185m 20217 13385 17209 | Titanium | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Lead ppm ASTM D5185m >10 0 0 <1 | Silver | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Copper ppm ASTM D5185m >50 9 20 4 Tin ppm ASTM D5185m >10 0 0 <1 Antimony ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 90 0 4 0 Molybdenum ppm ASTM D5185m 90 0 <1 0 Manganese ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 20217 13385 17209 ContraduitNANTS method Imit/base current history1 his | Aluminum | ppm | ASTM D5185m | >10 | 2 | 0 | 0 |
| Tin ppm ASTM D5185m >10 0 0 <1 | Lead | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 histor Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Malybdenum ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 1 4 34 34 Zinc ppm ASTM D5185m 2 0 0 0 Sulfur ppm ASTM D5185m 2 1 3385 17209 CONTAMINANTS metho | Copper | ppm | ASTM D5185m | >50 | 9 | 20 | 4 |
| VanadiumppmASTM D5185m000CadmiumppmASTM D5185mImit/basecurrenthistory1historBoronppmASTM D5185m0000BariumppmASTM D5185m90040MolybdenumppmASTM D5185m90040ManganeseppmASTM D5185m903213444CalciumppmASTM D5185m903213444CalciumppmASTM D5185m903213444CalciumppmASTM D5185m903213444CalciumppmASTM D5185m903213444CalciumppmASTM D5185m903213444CalciumppmASTM D5185m20000PhosphorusppmASTM D5185m2021771338517209CONTAMINANTSmethodlimit/basecurrenthistory1history1SulfurppmASTM D5185m>2020<1 | | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Cadmium ppm ASTM D5185m o o o ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 4 0 Molybdenum ppm ASTM D5185m 90 0 44 0 Manganese ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 2 0 0 0 Sulfur ppm ASTM D5185m 2 1 4 34 Silicon ppm ASTM D5185m >25 <1 <1 0 | Antimony | ppm | ASTM D5185m | | | | 0 |
| ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 4 0 Molybdenum ppm ASTM D5185m 90 0 <1 0 Manganese ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 2 0 0 0 Sulfur ppm ASTM D5185m 2 0 0 0 Sulfur ppm ASTM D5185m 2 13385 17209 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 <1 <1 <td< th=""><th>Vanadium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th>0</th></td<> | Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 90 0 4 0 Molybdenum ppm ASTM D5185m 90 0 <1 0 Manganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 2 0 0 0 Sulfur ppm ASTM D5185m 2 1 4 34 Sulfur ppm ASTM D5185m 220217 13385 17209 Solicon ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >20 2 0 <1 < | Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium ppm ASTM D5185m 90 0 4 0 Molybdenum ppm ASTM D5185m 0 <1 0 Manganese ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 2 18 7 8 Sulfur ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >20 2 0 <1 Vater % ASTM D5185m >20 2 0 <1 <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th> | ADDITIVES | | method | limit/base | current | history1 | history2 |
| Barium ppm ASTM D5185m 90 0 4 0 Molybdenum ppm ASTM D5185m 0 <1 0 Manganese ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 2 18 7 8 Sulfur ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >20 2 0 <1 Vater % ASTM D5185m >20 2 0 <1 <th>Boron</th> <td>maa</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>0</td> <td>0</td> | Boron | maa | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum ppm ASTM D5185m 0 <1 | Barium | | ASTM D5185m | 90 | | | 0 |
| Magnesse ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 1 4 34 Zinc ppm ASTM D5185m 18 7 8 Sulfur ppm ASTM D5185m 20217 13385 17209 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >20 2 0 <1 Water % ASTM D6304 >0.05 0.023 0.004 0.019 ppm Water ppm ASTM D6304 >500 231.9 49.0 190 < | Molybdenum | | ASTM D5185m | | 0 | <1 | 0 |
| Magnesium ppm ASTM D5185m 90 32 13 44 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 2 0 0 0 0 Phosphorus ppm ASTM D5185m 1 4 34 34 Zinc ppm ASTM D5185m 1 8 7 8 Sulfur ppm ASTM D5185m 20217 13385 17209 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >20 2 0 <1 Water % ASTM D6304 >0.05 0.023 0.004 0.019 ppm Water ppm ASTM D6304 >500 231.9 49.0 190 FLUID CLEANLINESS method limit/base curre | , | | ASTM D5185m | | | 0 | 0 |
| Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 1 4 34 Zinc ppm ASTM D5185m 18 7 8 Sulfur ppm ASTM D5185m 20217 13385 17209 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >20 2 0 <16 Potassium ppm ASTM D6304 >0.05 0.023 0.004 0.019 ppm Water ppm ASTM D6304 >500 231.9 49.0 190 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 5300 231.9 49.0 190 | Magnesium | | ASTM D5185m | 90 | 32 | 13 | 44 |
| Zinc ppm ASTM D5185m 18 7 8 Sulfur ppm ASTM D5185m 20217 13385 17209 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >20 2 0 <1 Potassium ppm ASTM D6304 >0.05 0.023 0.004 0.019 ppm Water ppm ASTM D6304 >500 231.9 49.0 190 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 6254 13302 19069 Particles >6µm ASTM D7647 >1300 2198 1929 7235 Particles >14µm ASTM D7647 >80 220 112 675 <th>Calcium</th> <th></th> <th>ASTM D5185m</th> <th>2</th> <th>0</th> <th>0</th> <th>0</th> | Calcium | | ASTM D5185m | 2 | 0 | 0 | 0 |
| Zinc ppm ASTM D5185m 18 7 8 Sulfur ppm ASTM D5185m 20217 13385 17209 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >20 2 0 <16 Potassium ppm ASTM D6304 >0.05 0.023 0.004 0.019 ppm Water ppm ASTM D6304 >500 231.9 49.0 190 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 6254 13302 19069 Particles >6µm ASTM D7647 >1300 2198 1929 7235 Particles >14µm ASTM D7647 >80 220 112 675 </th <th>Phosphorus</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>1</th> <th>4</th> <th>34</th> | Phosphorus | ppm | ASTM D5185m | | 1 | 4 | 34 |
| CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >25 <1 <1 0 Sodium ppm ASTM D5185m >20 2 0 <1 Potassium ppm ASTM D6304 >0.05 0.023 0.004 0.019 ppm Water ppm ASTM D6304 >500 231.9 49.0 190 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 6254 13302 19069 Particles >6µm ASTM D7647 >1300 2198 1929 7235 Particles >14µm ASTM D7647 >80 220 112 675 | | ppm | ASTM D5185m | | 18 | 7 | 8 |
| Silicon ppm ASTM D5185m >25 <1 | Sulfur | ppm | ASTM D5185m | | 20217 | 13385 | 17209 |
| Sodium ppm ASTM D5185m 5 2 16 Potassium ppm ASTM D5185m >20 2 0 <1 Water % ASTM D6304 >0.05 0.023 0.004 0.019 ppm Water ppm ASTM D6304 >500 231.9 49.0 190 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 6254 13302 19069 Particles >6µm ASTM D7647 >1300 2198 1929 7235 Particles >14µm ASTM D7647 >80 220 112 675 | CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Sodium ppm ASTM D5185m 5 2 16 Potassium ppm ASTM D5185m >20 2 0 <1 Water % ASTM D6304 >0.05 0.023 0.004 0.019 ppm Water ppm ASTM D6304 >500 231.9 49.0 190 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 6254 13302 19069 Particles >6µm ASTM D7647 >1300 2198 1929 7235 Particles >14µm ASTM D7647 >80 220 112 675 | Silicon | ppm | ASTM D5185m | >25 | <1 | <1 | 0 |
| Potassium ppm ASTM D5185m >20 2 0 <1 | Sodium | | ASTM D5185m | | | 2 | 16 |
| Water % ASTM D6304 >0.05 0.023 0.004 0.019 ppm Water ppm ASTM D6304 >500 231.9 49.0 190 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 6254 13302 19069 Particles >6μm ASTM D7647 >1300 2198 1929 7235 Particles >14μm ASTM D7647 >80 220 112 675 | Potassium | | ASTM D5185m | >20 | 2 | | <1 |
| FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 6254 13302 19069 Particles >6μm ASTM D7647 >1300 2198 1929 7235 Particles >14μm ASTM D7647 >80 220 112 675 | Water | | ASTM D6304 | >0.05 | 0.023 | 0.004 | 0.019 |
| Particles >4μm ASTM D7647 6254 13302 19069 Particles >6μm ASTM D7647 >1300 ▲ 2198 ▲ 1929 ▲ 7235 Particles >14μm ASTM D7647 >80 ▲ 220 ▲ 112 ▲ 675 | ppm Water | ppm | ASTM D6304 | >500 | 231.9 | 49.0 | 190 |
| Particles >6μm ASTM D7647 >1300 Δ 2198 Δ 1929 Δ 7235 Particles >14μm ASTM D7647 >80 Δ 220 Δ 112 Δ 675 | FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >6μm ASTM D7647 >1300 Δ 2198 Δ 1929 Δ 7235 Particles >14μm ASTM D7647 >80 Δ 220 Δ 112 Δ 675 | Particles >4µm | | ASTM D7647 | | 6254 | 13302 | 19069 |
| Particles >14μm ASTM D7647 >80 ▲ 220 ▲ 112 ▲ 675 | | | | >1300 | | | ▲ 7235 |
| | | | | | | | |
| Particles >21 μ m ASTM D7647 >20 \triangle 58 \triangle 33 \triangle 163 | Particles >21µm | | ASTM D7647 | >20 | <u> </u> | A 33 | 1 63 |
| Particles >38µm ASTM D7647 >4 2 2 ▲ 9 | | | | | | | |
| Particles >71µm ASTM D7647 >3 0 1 | | | | >3 | 0 | 0 | |
| Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 20/18/15 ▲ 18/14 ▲ 20/17 | | | | | | ▲ 18/14 | ▲ 20/17 |
| FLUID DEGRADATION method limit/base current history1 history | FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.31 0.34 0.298 | Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | 0.31 | 0.34 | 0.298 |

Contact/Location: Service Manager - SIPJAC



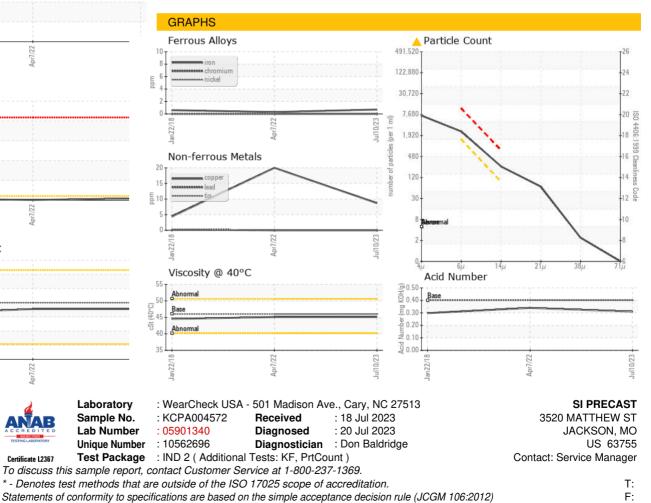
OIL ANALYSIS REPORT





| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | LIGHT | NONE | LIGHT |
| 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 | LIGHT | NONE | 🔺 MODER |
| 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 | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 45.1 | 45.1 | 44.53 |
| SAMPLE IMAGES | S | method | limit/base | current | history1 | history2 |
| Color | | | | E. | | |

Bottom



Contact/Location: Service Manager - SIPJAC