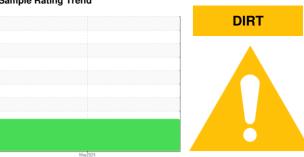


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

ATLAS COPCO API873673 - JBS-PIPESTONE

Component Compressor

{not provided} (5 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. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Fluid Condition

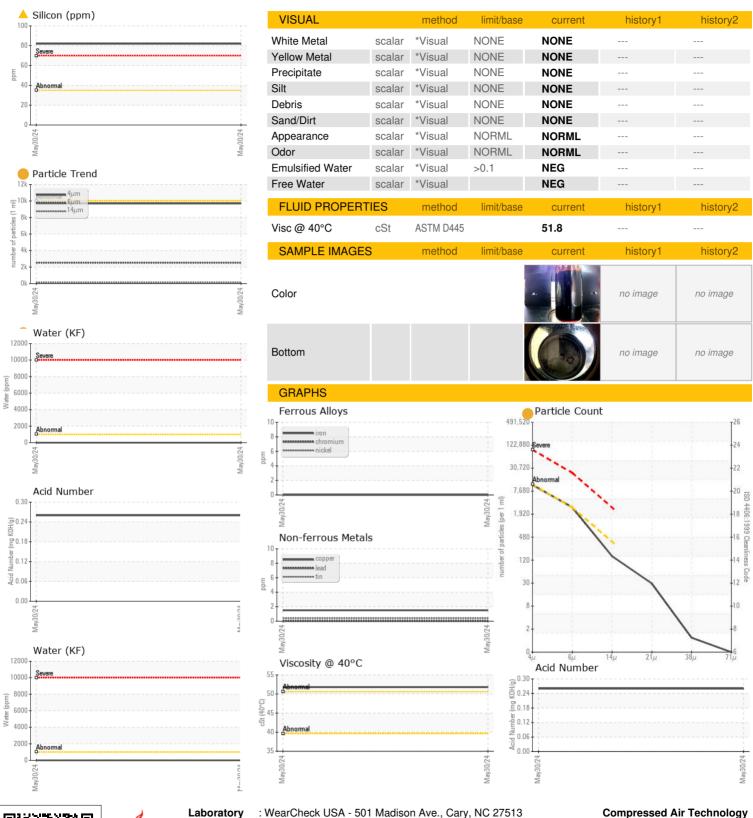
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|---|--|---|--|---|----------------------------|----------------------------|
| Sample Number | | Client Info | | DFP0000015 | | |
| Sample Date | | Client Info | | 30 May 2024 | | |
| Machine Age | hrs | Client Info | | 8061 | | |
| Oil Age | hrs | Client Info | | 8061 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | ABNORMAL | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 0 | | |
| Chromium | ppm | ASTM D5185m | >5 | 0 | | |
| Nickel | ppm | ASTM D5185m | | 0 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | | 0 | | |
| Aluminum | ppm | ASTM D5185m | >15 | 0 | | |
| Lead | ppm | ASTM D5185m | >65 | 0 | | |
| Copper | ppm | ASTM D5185m | >65 | 2 | | |
| Tin | ppm | ASTM D5185m | >10 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | | |
| Barium | ppm | ASTM D5185m | | <1 | | |
| Molybdenum | ppm | ASTM D5185m | | 0 | | |
| Manganese | ppm | ASTM D5185m | | <1 | | |
| Magnasium | | 10TH DE 10E | | | | |
| Magnesium | ppm | ASTM D5185m | | 0 | | |
| Magnesium Calcium | ppm | | | 2 | | |
| Calcium | ppm | ASTM D5185m ASTM D5185m ASTM D5185m | | | | |
| - | ppm ppm | ASTM D5185m | | 2 | | |
| Calcium Phosphorus | ppm | ASTM D5185m ASTM D5185m | | 2 21 | | |
| Calcium Phosphorus Zinc | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | limit/base | 2 21 28 | | |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method | | 2 21 28 35 current | | |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m | limit/base >35 | 2 21 28 35 current | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m | >35 | 2 21 28 35 current \$2 <1 | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m | >35 >20 | 2 21 28 35 current 82 <1 <1 | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m | >35 >20 | 2 21 28 35 current \$2 <1 | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 | >35 >20 >0.1 | 2 21 28 35 current 82 <1 <1 0.000 | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 | >35 >20 >0.1 >1000 | 2 21 28 35 current 82 <1 <1 0.000 0 | history1 | history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method | >35 >20 >0.1 >1000 limit/base | 2 21 28 35 current 82 <1 <1 0.000 0 current | history1 history1 history1 | history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 | >35 >20 >0.1 >1000 limit/base >10000 | 2 21 28 35 current 82 <1 <1 0.000 0 current 9696 | history1 history1 history1 | history2 history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 | >35 >20 >0.1 >1000 limit/base >10000 >2500 | 2 21 28 35 current 82 <1 <1 0.000 0 current 9696 2528 | history1 history1 history1 | history2 history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 | >35 >20 >0.1 >1000 limit/base >10000 >2500 >320 | 2 21 28 35 current 82 <1 <1 0.000 0 current 9696 2528 134 | history1 history1 history1 | history2 history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | >35 >20 >0.1 >1000 limit/base >10000 >2500 >320 >80 | 2 21 28 35 current 82 <1 <1 0.000 0 current 9696 2528 134 26 | history1 history1 history1 | history2 history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 | >35 >20 >0.1 >1000 limit/base >10000 >2500 >320 >80 >20 | 2 21 28 35 current 82 <1 <1 0.000 0 current 9696 2528 134 26 1 | history1 history1 history1 | history2 history2 |
| Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm | ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 | >35 >20 >0.1 >1000 limit/base >10000 >2500 >320 >80 >20 >4 | 2 21 28 35 current 82 <1 <1 0.000 0 current 9696 2528 134 26 1 0 | history1 history1 history1 | history2 history2 |

Contact/Location: KEN HURST - DFPSIO



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06200140 Unique Number : 11062263

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DFP0000015 Received : 05 Jun 2024

Tested : 06 Jun 2024 Diagnosed : 07 Jun 2024 - Don Baldridge Test Package : PLANT (Additional Tests: KF)

US 57104 Contact: KEN HURST khurst@dfpcompressedairtechnology.com

1801 E. 39th Street North

To discuss this sample report, contact Customer Service at 1-833-307-5970. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (605)332-0988 Contact/Location: KEN HURST - DFPSIO

Sioux Falls,