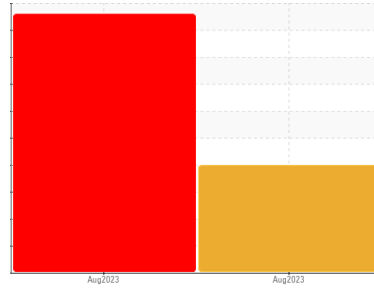


PROBLEM SUMMARY

Sample Rating Trend



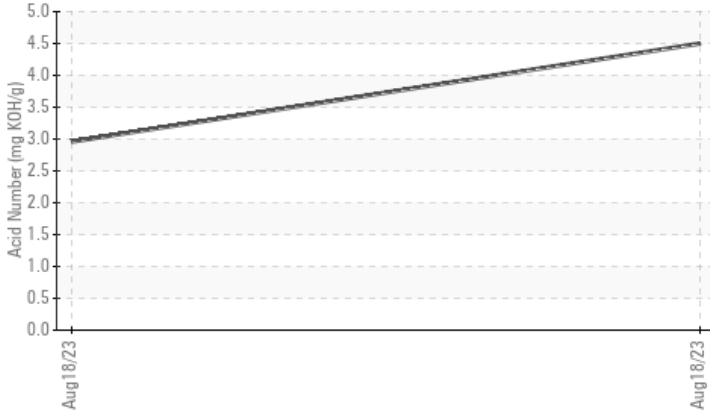
DEGRADATION



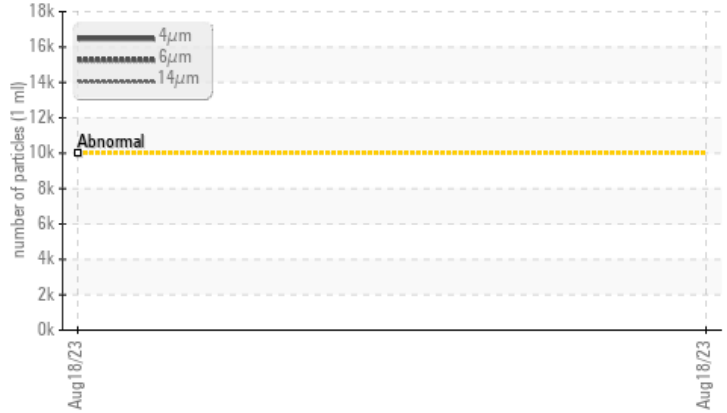
Area
Boiler
Machine Id
Air compressor 6 (S/N 90809J)
Component
Air Compressor
Fluid
SUMMIT FG-200 ISO 46 (52 GAL)

COMPONENT CONDITION SUMMARY

Acid Number



Particle Trend



RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. (Customer Sample Comment: Used tube and suction Tool method to take sample from top of machine)

PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	SEVERE	---
Particles >4µm	ASTM D7647 >10000 ▲ 16037	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/15 ▲ 21/18/11	---	---
Acid Number (AN)	mg KOH/g ASTM D8045 ◆ 4.50	◆ 2.96	---

Customer Id: DARDALTX
Sample No.: TO50001783
Lab Number: 05932797
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@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	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

18 Aug 2023 Diag: Doug Bogart

DEGRADATION

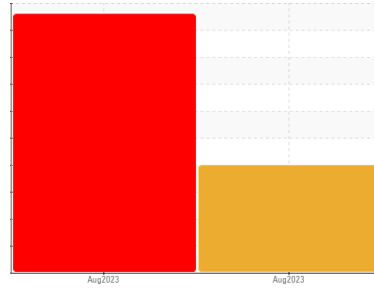


We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. The iron level is abnormal. Sample consists almost entirely of free water. High concentration of visible dirt/debris present in the oil. The AN level is above the recommended limit. The oil is no longer serviceable due to the presence of contaminants.

view report



Area
Boiler
 Machine Id
Air compressor 6 (S/N 90809J)
 Component
Air Compressor
 Fluid
SUMMIT FG-200 ISO 46 (52 GAL)



DIAGNOSIS

Recommendation
 Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. (Customer Sample Comment: Used tube and suction Tool method to take sample from top of machine)

Wear
 All component wear rates are normal.

Contamination
 There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
 The AN level is above the recommended limit. The oil is no longer serviceable.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	TO50001783	TO50001779	---
Sample Date	Client Info	18 Aug 2023	18 Aug 2023	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	---
Sample Status		SEVERE	SEVERE	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	15	▲ 80	---
Iron	ppm	ASTM D5185m >50	1	▲ 34
Chromium	ppm	ASTM D5185m >4	0	0
Nickel	ppm	ASTM D5185m >4	0	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >10	<1	<1
Lead	ppm	ASTM D5185m >20	0	0
Copper	ppm	ASTM D5185m >40	2	<1
Tin	ppm	ASTM D5185m >5	0	<1
Vanadium	ppm	ASTM D5185m	<1	<1
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1
Calcium	ppm	ASTM D5185m	0	0
Phosphorus	ppm	ASTM D5185m	21	22
Zinc	ppm	ASTM D5185m	<1	0
Sulfur	ppm	ASTM D5185m	8	10

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	14
Sodium	ppm	ASTM D5185m	2	1
Potassium	ppm	ASTM D5185m >20	<1	3
Water	%	ASTM D6304 >0.6	0.005	● 87.4
ppm Water	ppm	ASTM D6304 >6000	58.7	● 874000

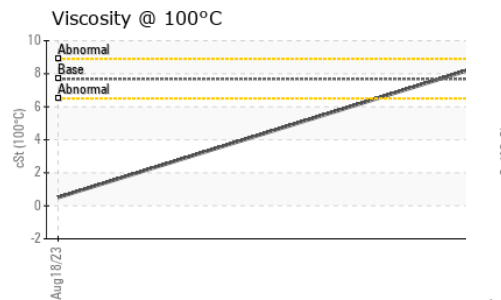
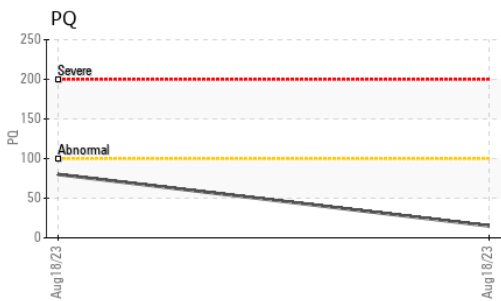
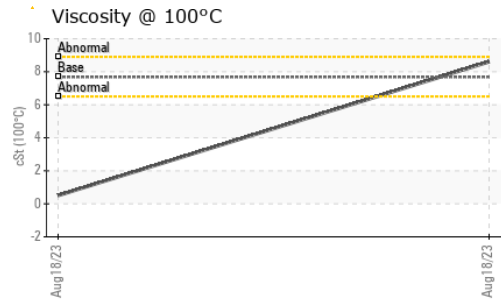
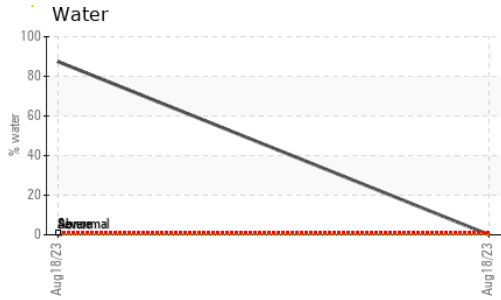
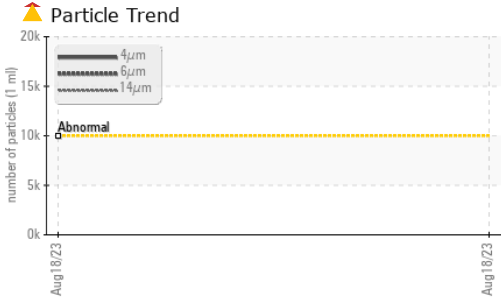
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 16037	---	---
Particles >6µm	ASTM D7647 >2500	2309	---	---
Particles >14µm	ASTM D7647 >320	18	---	---
Particles >21µm	ASTM D7647 >80	5	---	---
Particles >38µm	ASTM D7647 >20	1	---	---
Particles >71µm	ASTM D7647 >4	0	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ 21/18/11	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	● 4.50	● 2.96

OIL ANALYSIS REPORT



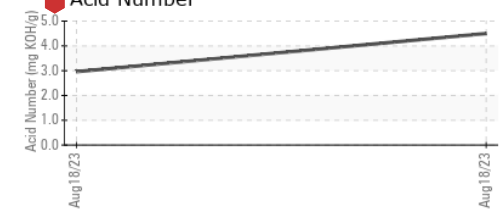
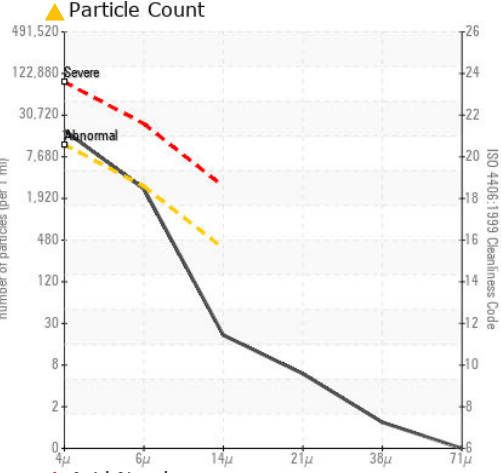
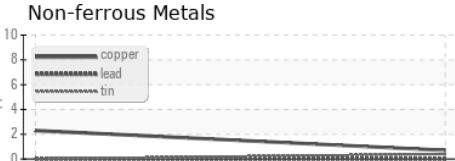
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.6	NEG	● 0.2%
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.7	55.1	0.9
Visc @ 100°C	cSt	ASTM D445	7.68	8.6	0.5
Viscosity Index (VI)	Scale	ASTM D2270	132	131	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001783 **Received** : 23 Aug 2023
Lab Number : 05932797 **Diagnosed** : 28 Aug 2023
Unique Number : 10618068 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

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 DALLAS, TX
 US 75236
 Contact: YON PALOMINO
 yon.palomino@dart.biz
 T: (214)775-5673
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - 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)