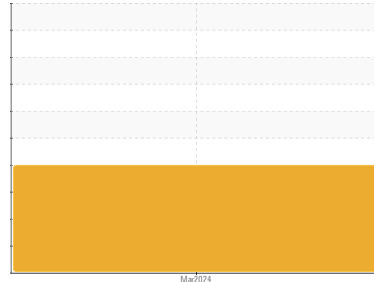


OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
BANDIT BEAST BANDIT BEAST 4680T
 Component
Clutch
 Fluid
CAT TDTO 10W (--- GAL)

DIAGNOSIS

Recommendation
 We recommend you service the filters on this component. 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 fluid. There is a light concentration of water present in the fluid.

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0082931	---	---
Sample Date	Client Info	13 Mar 2024	---	---
Machine Age	hrs Client Info	1523	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>1000	3	---	---
Chromium ppm ASTM D5185m	>15	<1	---	---
Nickel ppm ASTM D5185m	>5	0	---	---
Titanium ppm ASTM D5185m		<1	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>30	1	---	---
Lead ppm ASTM D5185m	>20	0	---	---
Copper ppm ASTM D5185m	>75	<1	---	---
Tin ppm ASTM D5185m		0	---	---
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		0	---	---
Molybdenum ppm ASTM D5185m		0	---	---
Manganese ppm ASTM D5185m		<1	---	---
Magnesium ppm ASTM D5185m		12	---	---
Calcium ppm ASTM D5185m	2980	3137	---	---
Phosphorus ppm ASTM D5185m	1100	1075	---	---
Zinc ppm ASTM D5185m	1270	1348	---	---
Sulfur ppm ASTM D5185m		8568	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>250	3	---	---
Sodium ppm ASTM D5185m		2	---	---
Potassium ppm ASTM D5185m	>20	<1	---	---
Water % ASTM D6304		▲ 0.112	---	---
ppm Water ppm ASTM D6304		▲ 1129	---	---

FLUID CLEANLINESS

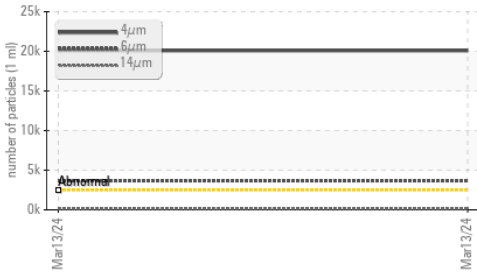
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>2500	▲ 20087	---	---
Particles >6µm ASTM D7647	>640	▲ 3676	---	---
Particles >14µm ASTM D7647	>80	▲ 112	---	---
Particles >21µm ASTM D7647	>20	▲ 41	---	---
Particles >38µm ASTM D7647	>4	▲ 5	---	---
Particles >71µm ASTM D7647	>3	1	---	---
Oil Cleanliness ISO 4406 (c)	>18/16/13	▲ 22/19/14	---	---

FLUID DEGRADATION

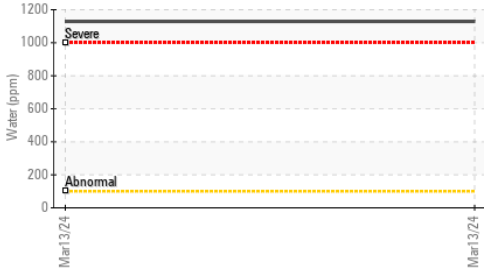
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		2.42	---	---

OIL ANALYSIS REPORT

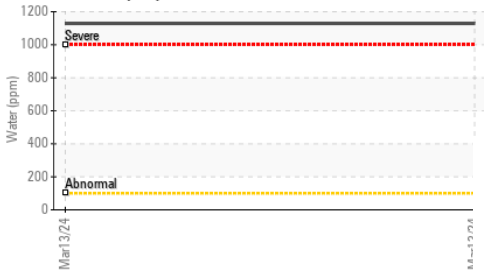
▲ Particle Trend



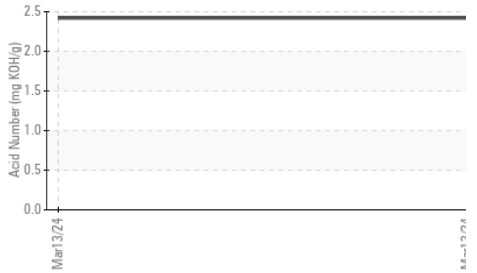
▲ Water (KF)



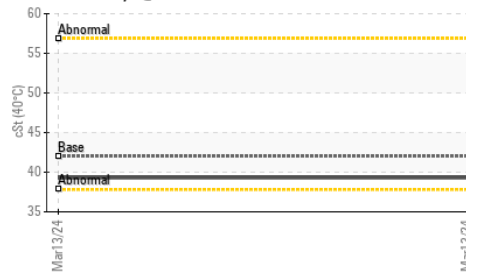
▲ Water (KF)



Acid Number



Viscosity @ 40°C



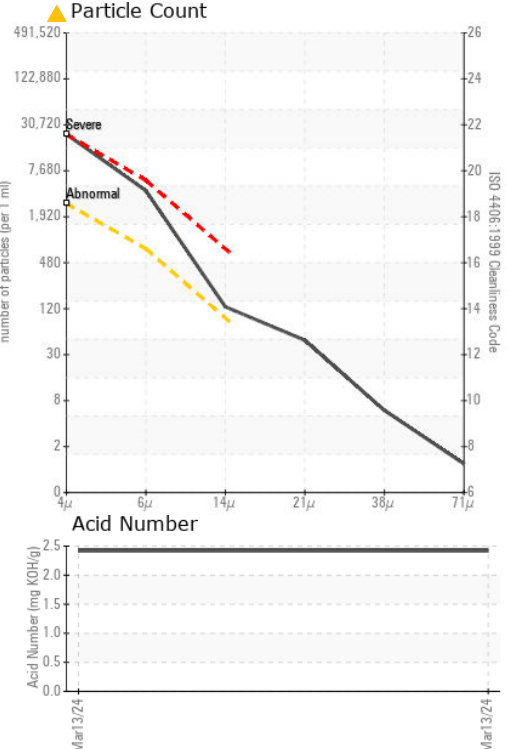
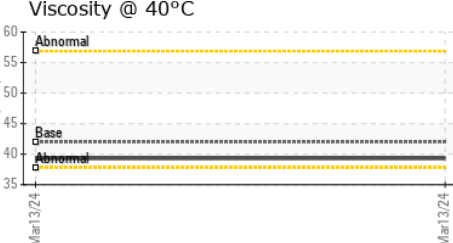
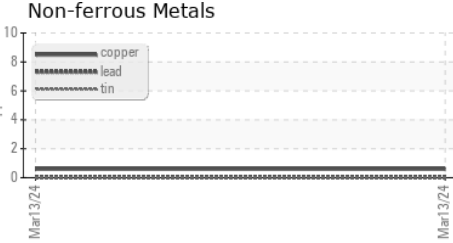
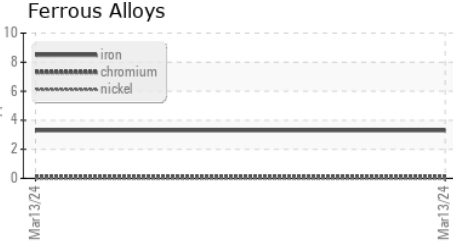
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	42.0	39.3	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0082931 **Received** : 18 Mar 2024
Lab Number : **06121565** **Tested** : 19 Mar 2024
Unique Number : 10930398 **Diagnosed** : 21 Mar 2024 - Jonathan Hester
Test Package : PLANT

DAVEY TREE - SOUTH ST PAUL
 405 HARDMAN AVE S
 SOUTH ST PAUL, MN
 US 55075
 Contact: RICK HOGAN
 rick.hogan@davey.com
 T: (651)337-4089
 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)