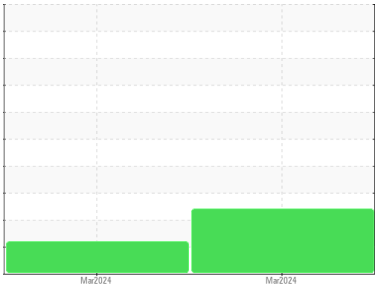
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
VIKING 505 PALLET MACHINE MACHINE 2
Component
Hydraulic System
Fluid
CONOCO MEGAFLOW AW 32 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RH0001983**	RH0001990	---
Sample Date		Client Info		**17 Mar 2024**	14 Mar 2024	---
Machine Age	wks	Client Info		**0**	1	---
Oil Age	wks	Client Info		**1**	0	---
Oil Changed		Client Info		**Not Changd**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**13**	14	---
Iron	ppm	ASTM D5185m	>20	**3**	1	---
Chromium	ppm	ASTM D5185m	>10	**<1**	0	---
Nickel	ppm	ASTM D5185m	>10	**<1**	0	---
Titanium	ppm	ASTM D5185m		**<1**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>10	**2**	0	---
Lead	ppm	ASTM D5185m	>10	**1**	0	---
Copper	ppm	ASTM D5185m	>75	**2**	1	---
Tin	ppm	ASTM D5185m	>10	**1**	0	---
Vanadium	ppm	ASTM D5185m		**<1**	<1	---
Cadmium	ppm	ASTM D5185m		**<1**	0	---

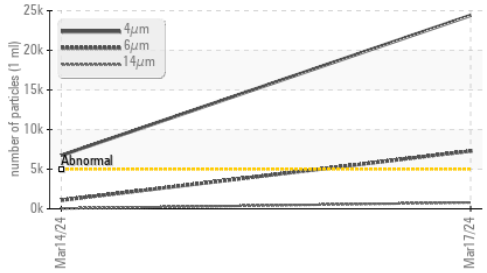
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**7**	10	---
Barium	ppm	ASTM D5185m	0	**0**	0	---
Molybdenum	ppm	ASTM D5185m	0	**8**	7	---
Manganese	ppm	ASTM D5185m		**<1**	0	---
Magnesium	ppm	ASTM D5185m	0	**23**	17	---
Calcium	ppm	ASTM D5185m	80	**120**	152	---
Phosphorus	ppm	ASTM D5185m	365	**360**	308	---
Zinc	ppm	ASTM D5185m	500	**432**	383	---
Sulfur	ppm	ASTM D5185m	1000	**1022**	1054	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**4**	3	---
Sodium	ppm	ASTM D5185m		**0**	2	---
Potassium	ppm	ASTM D5185m	>20	**2**	0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **24410**	● 6739	---
Particles >6µm		ASTM D7647	>1300	▲ **7295**	1087	---
Particles >14µm		ASTM D7647	>160	▲ **796**	39	---
Particles >21µm		ASTM D7647	>40	▲ **234**	10	---
Particles >38µm		ASTM D7647	>10	● **15**	0	---
Particles >71µm		ASTM D7647	>3	**1**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/20/17**	● 20/17/12	---

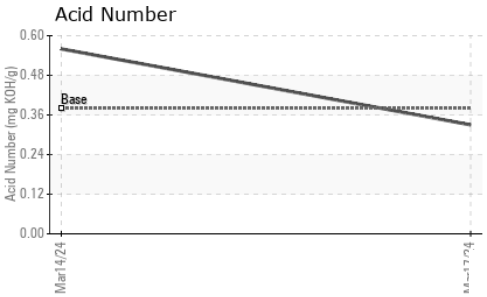
OIL ANALYSIS REPORT

Particle Trend

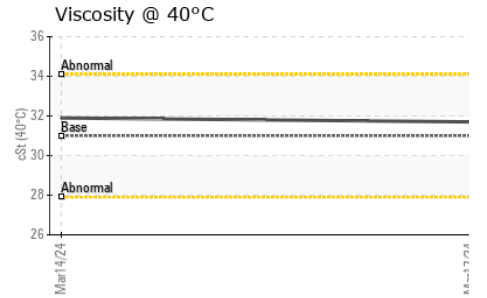


PQ

Acid Number



Viscosity @ 40°C

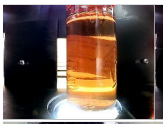
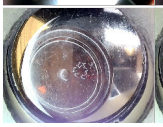


PQ

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.38	**0.33**	0.56	---

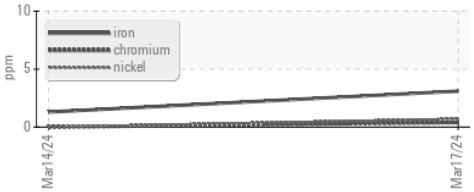
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**LIGHT**	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.0	**31.7**	31.9	---

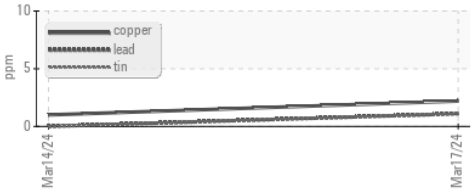
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

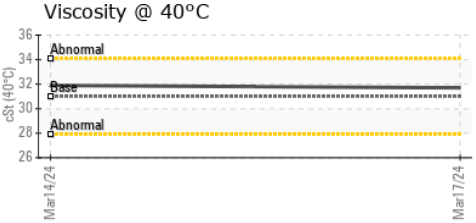
Ferrous Alloys



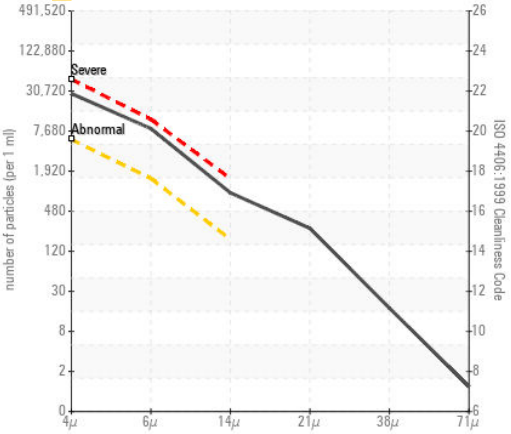
Non-ferrous Metals



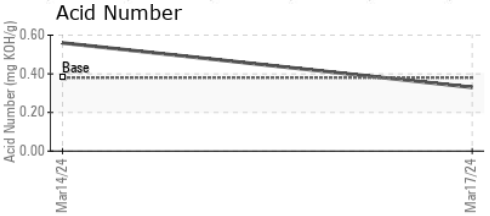
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RH0001983
Lab Number : 06136256
Unique Number : 10955721
Test Package : MOB 2 (Additional Tests: PQ)

Received : 02 Apr 2024
Tested : 03 Apr 2024
Diagnosed : 03 Apr 2024 - Wes Davis

BC WOOD PRODUCTS
11364 AIR PARK RD
ASHLAND, VA
US 23005
Contact: C SLADE
CSLADE@BCWOODPRODUCTS.COM
T:
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)