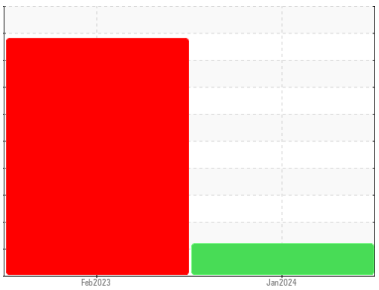
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
SEABOARD FOOD START TANK
Component
New (Unused) Oil
Fluid
{not provided} (--- QTS)

DIAGNOSIS

▲ **Recommendation**
This is a baseline read-out on the submitted sample.

▲ **Contamination**
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. No evidence of water present in the oil.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA06069826**	PCA05770031	---
Sample Date		Client Info		**22 Jan 2024**	08 Feb 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				**ATTENTION**	SEVERE	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	**0**	<1	---
Chromium	ppm	ASTM D5185m	>5	**0**	0	---
Nickel	ppm	ASTM D5185m	>5	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m	>5	**<1**	<1	---
Aluminum	ppm	ASTM D5185m	>5	**0**	0	---
Lead	ppm	ASTM D5185m	>5	**0**	0	---
Copper	ppm	ASTM D5185m	>5	**<1**	<1	---
Tin	ppm	ASTM D5185m	>5	**<1**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
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**	0	---
Magnesium	ppm	ASTM D5185m		**2**	2	---
Calcium	ppm	ASTM D5185m		**54**	8	---
Phosphorus	ppm	ASTM D5185m		**359**	108	---
Zinc	ppm	ASTM D5185m		**453**	81	---
Sulfur	ppm	ASTM D5185m		**841**	545	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	2	---
Sodium	ppm	ASTM D5185m		**<1**	<1	---
Potassium	ppm	ASTM D5185m	>20	**0**	0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **9401**	470	---
Particles >6µm		ASTM D7647	>1300	▲ **1701**	256	---
Particles >14µm		ASTM D7647	>160	**124**	44	---
Particles >21µm		ASTM D7647	>40	**30**	15	---
Particles >38µm		ASTM D7647	>10	**1**	2	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/18/14**	16/15/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.42**	0.11	---

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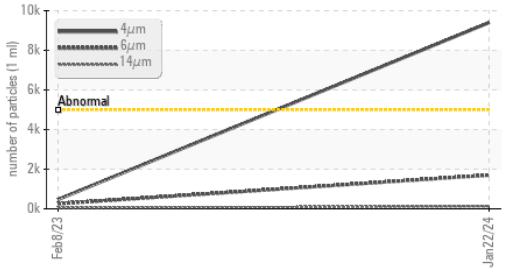
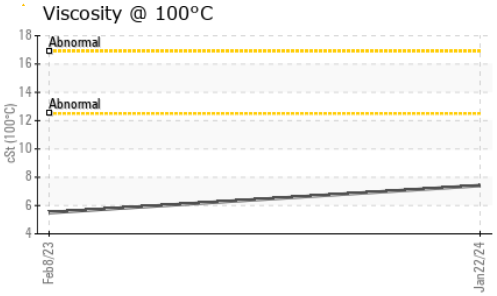
OIL ANALYSIS REPORT

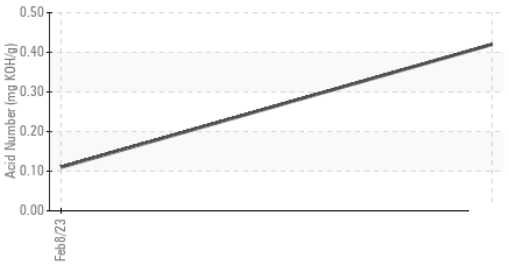
Particle Trend



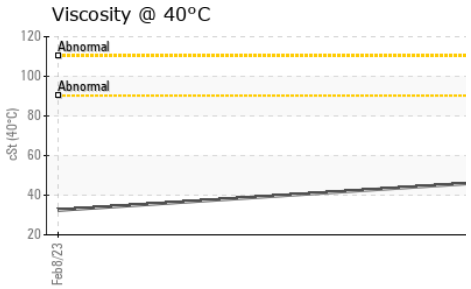
Viscosity @ 100°C



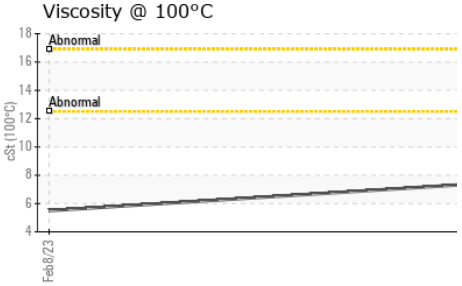
Acid Number



Viscosity @ 40°C

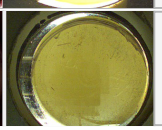


Viscosity @ 100°C



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	**NONE**	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	▲ HAZY	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual		**NEG**	⬢ 0.2%	---
Free Water	scalar	*Visual		**NEG**	⬢ 1.0	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**46.63**	32.45	---
Visc @ 100°C	cSt	ASTM D445		**7.41**	5.5	---
Viscosity Index (VI)	Scale	ASTM D2270		**122**	105	---

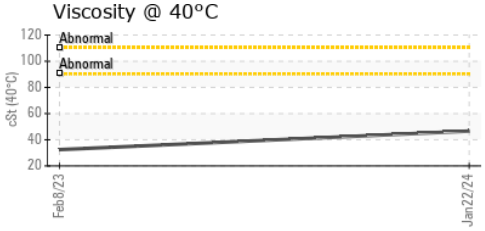
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

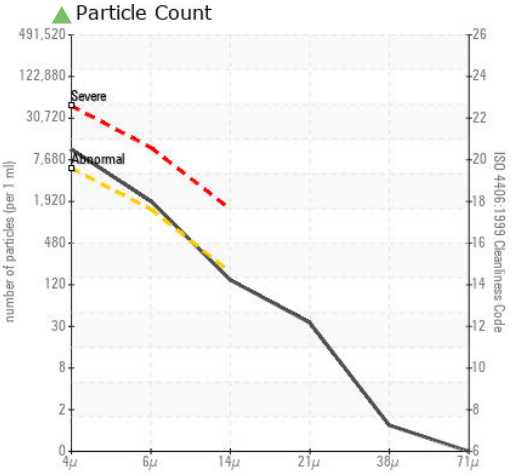
Ferrous Alloys

Non-ferrous Metals

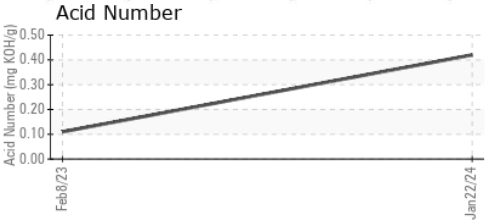
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA06069826 **Recieved** : 24 Jan 2024
Lab Number : 06069826 **Diagnosed** : 24 Jan 2024
Unique Number : 10846503 **Diagnostician** : Doug Bogart
Test Package : MOB 1 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI)

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)

MOTION INDUSTRIES
2123 WEST MARY ST
GARDEN CITY, KS
US 67846
Contact: WES PARKER
WES.PARKER@MOTION.COM
T:
F: