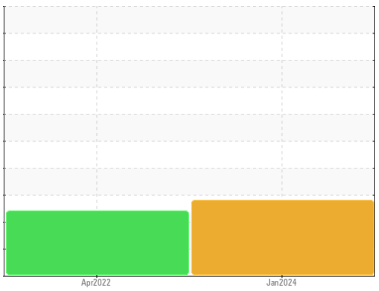
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Area
PASTA [98709269 BEFORE]
Machine Id
L21 MAIN DRIVE 3 WAY
Component
Gearbox
Fluid
GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. (before).

Wear

All component wear rates are normal.

Contamination

There is a high 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 oil viscosity is lower than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0114280**	PCA0067385	---
Sample Date		Client Info		**20 Jan 2024**	04 Apr 2022	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	Not Changd	---
Sample Status				**ABNORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**6**	18	---
Chromium	ppm	ASTM D5185m	>15	**<1**	<1	---
Nickel	ppm	ASTM D5185m	>15	**0**	0	---
Titanium	ppm	ASTM D5185m		**<1**	6	---
Silver	ppm	ASTM D5185m		**0**	<1	---
Aluminum	ppm	ASTM D5185m	>25	**3**	4	---
Lead	ppm	ASTM D5185m	>100	**0**	0	---
Copper	ppm	ASTM D5185m	>200	**<1**	<1	---
Tin	ppm	ASTM D5185m	>25	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	**0**	0	---
Barium	ppm	ASTM D5185m	15	**0**	0	---
Molybdenum	ppm	ASTM D5185m	15	**0**	0	---
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m	50	**<1**	0	---
Calcium	ppm	ASTM D5185m	50	**<1**	<1	---
Phosphorus	ppm	ASTM D5185m	350	**426**	161	---
Zinc	ppm	ASTM D5185m	100	**113**	172	---
Sulfur	ppm	ASTM D5185m	12500	**1134**	4	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ **189**	▲ 207	---
Sodium	ppm	ASTM D5185m		**0**	4	---
Potassium	ppm	ASTM D5185m	>20	**<1**	0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **46844**	▲ 90552	---
Particles >6µm		ASTM D7647	>2500	**1667**	▲ 7149	---
Particles >14µm		ASTM D7647	>640	**30**	607	---
Particles >21µm		ASTM D7647	>160	**6**	156	---
Particles >38µm		ASTM D7647	>40	**1**	18	---
Particles >71µm		ASTM D7647	>10	**1**	1	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	▲ **23/18/12**	▲ 24/20/16	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	**0.52**	0.34	---

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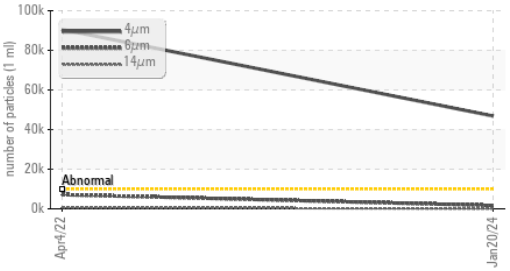
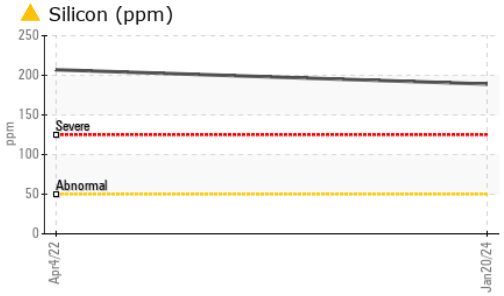
OIL ANALYSIS REPORT

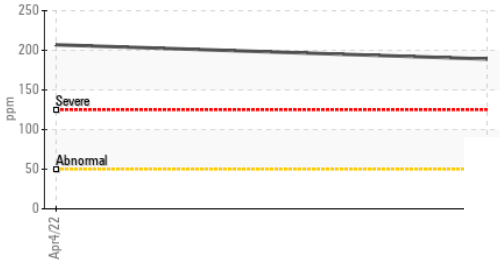
Particle Trend



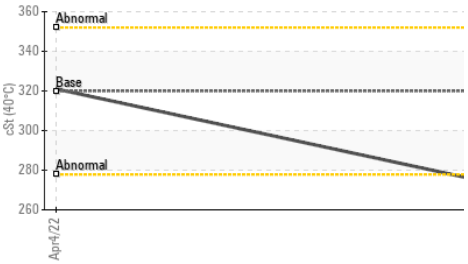
Silicon (ppm)



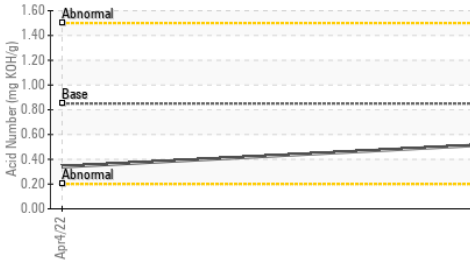
Silicon (ppm)



Viscosity @ 40°C

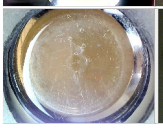
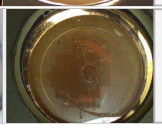


Acid Number



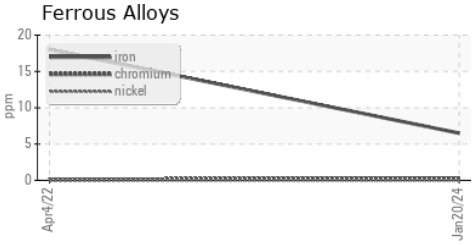
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	▲ **274**	321	---

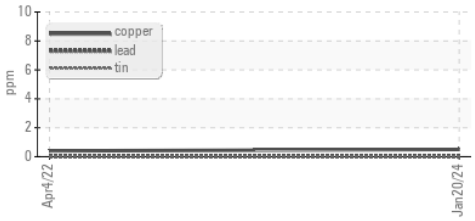
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

GRAPHS

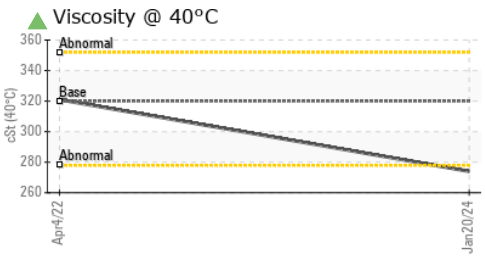
Ferrous Alloys



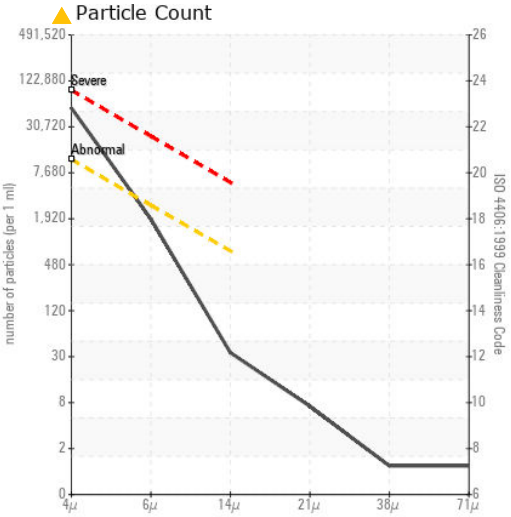
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114280 **Recieved** : 26 Jan 2024
Lab Number : 06071660 **Diagnosed** : 30 Jan 2024
Unique Number : 10848337 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: PrtCount)

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)

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