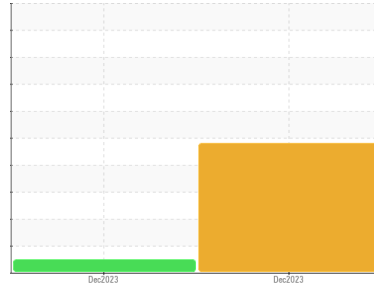


OIL ANALYSIS REPORT

Sample Rating Trend



Area
[41488]
 Machine Id
E-50
 Component
Right Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

- ▲ **Recommendation**
 No corrective action is recommended at this time. Resample at the next service interval to monitor.
- ▲ **Wear**
 Gear wear is indicated.
- ▲ **Contamination**
 Elemental level of silicon (Si) above normal indicating ingress of seal material.
- ▲ **Fluid Condition**
 The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0113098	PCA0113099	---
Sample Date	Client Info		08 Dec 2023	02 Dec 2023	---
Machine Age	hrs	Client Info	5335	5420	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			ABNORMAL	NORMAL	---

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 >500	▲ 660	27	---
Chromium	ppm	ASTM D5185m >10	4	0	---
Nickel	ppm	ASTM D5185m >10	<1	0	---
Titanium	ppm	ASTM D5185m	1	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	3	<1	---
Lead	ppm	ASTM D5185m >25	0	4	---
Copper	ppm	ASTM D5185m >50	2	<1	---
Tin	ppm	ASTM D5185m >10	0	0	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	▲ 10	222	---
Barium	ppm	ASTM D5185m 200	0	<1	---
Molybdenum	ppm	ASTM D5185m 12	2	1	---
Manganese	ppm	ASTM D5185m	7	0	---
Magnesium	ppm	ASTM D5185m 12	▲ 298	21	---
Calcium	ppm	ASTM D5185m 150	▲ 2494	374	---
Phosphorus	ppm	ASTM D5185m 1650	1123	1007	---
Zinc	ppm	ASTM D5185m 125	▲ 1390	196	---
Sulfur	ppm	ASTM D5185m 22500	▲ 4791	16626	---

CONTAMINANTS

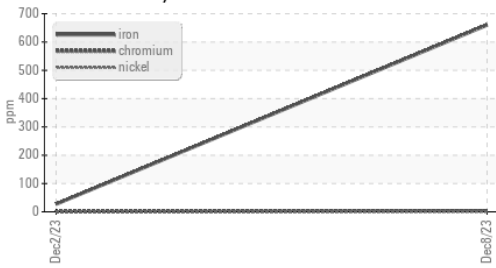
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 144	3	---
Sodium	ppm	ASTM D5185m >170	<1	2	---
Potassium	ppm	ASTM D5185m >20	7	<1	---

FLUID DEGRADATION

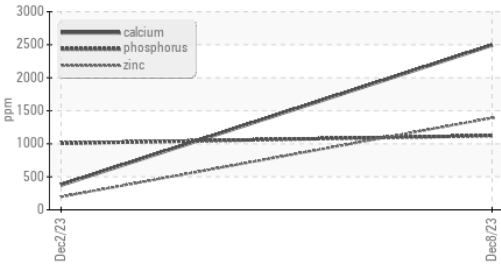
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 2.00	1.30	1.21	---

OIL ANALYSIS REPORT

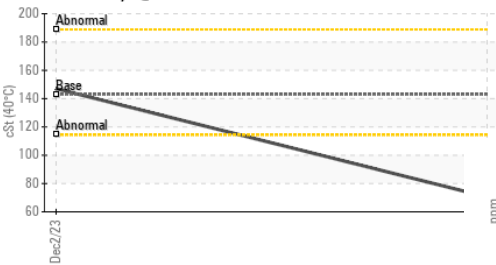
▲ Ferrous Alloys



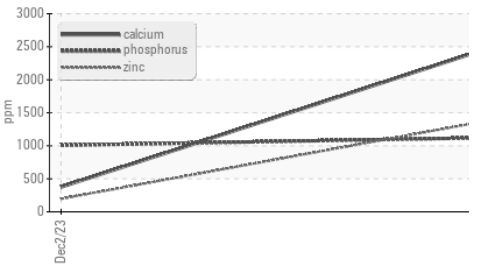
▲ Additives



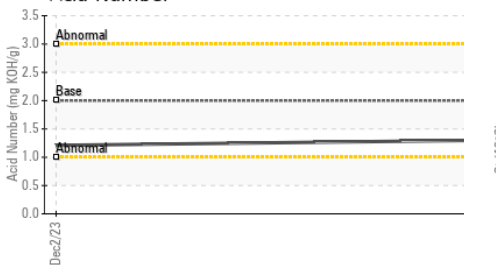
▲ Viscosity @ 40°C



▲ Additives



Acid Number



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	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

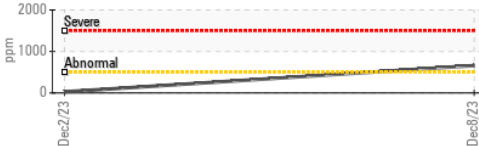
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143 ▲ 70.5	147	---

SAMPLE IMAGES

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

GRAPHS

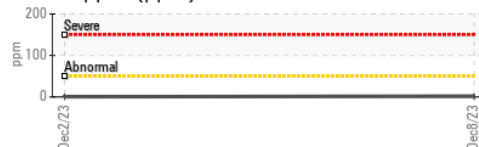
▲ Iron (ppm)



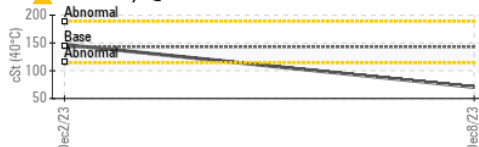
Aluminum (ppm)



Copper (ppm)



▲ Viscosity @ 40°C



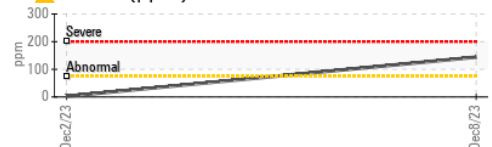
Lead (ppm)



Chromium (ppm)



▲ Silicon (ppm)



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0113098 **Recieved** : 13 Dec 2023
Lab Number : 06034156 **Diagnosed** : 18 Dec 2023
Unique Number : 10789385 **Diagnostician** : Jonathan Hester
Test Package : MOB 2

SCRAP METAL SERVICES NON-FERROUS DIVISION
 3000 W 139TH ST
 BLUE ISLAND, IL
 US 60406
 Contact: SERGIO FERNANDEZ
 sfernandez@scrapmetalservices.com

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)

T:
F: