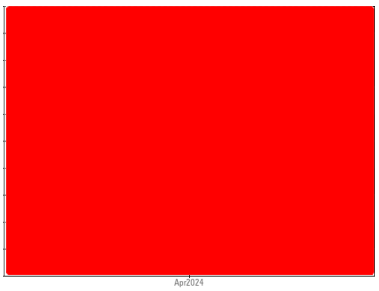
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
K5 CONSTRUCTION CORPORATION - HODGKINS IL
Machine Id
4360
Component
Rear Differential
Fluid
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

▲ Recommendation
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear
Gear wear is indicated.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0122070**	---	---
Sample Date		Client Info		**19 Apr 2024**	---	---
Machine Age	hrs	Client Info		**8995**	---	---
Oil Age	hrs	Client Info		**8995**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**SEVERE**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>1206	▲ **4523**	---	---
Chromium	ppm	ASTM D5185m	>9	▲ **22**	---	---
Nickel	ppm	ASTM D5185m	>9	▲ **49**	---	---
Titanium	ppm	ASTM D5185m		**2**	---	---
Silver	ppm	ASTM D5185m	>2	**<1**	---	---
Aluminum	ppm	ASTM D5185m	>72	**13**	---	---
Lead	ppm	ASTM D5185m	>56	**2**	---	---
Copper	ppm	ASTM D5185m	>57	**7**	---	---
Tin	ppm	ASTM D5185m	>6	**0**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**123**	---	---
Barium	ppm	ASTM D5185m	200	**<1**	---	---
Molybdenum	ppm	ASTM D5185m	12	**6**	---	---
Manganese	ppm	ASTM D5185m		**45**	---	---
Magnesium	ppm	ASTM D5185m	12	**6**	---	---
Calcium	ppm	ASTM D5185m	150	**30**	---	---
Phosphorus	ppm	ASTM D5185m	1650	**1684**	---	---
Zinc	ppm	ASTM D5185m	125	**63**	---	---
Sulfur	ppm	ASTM D5185m	22500	**23789**	---	---

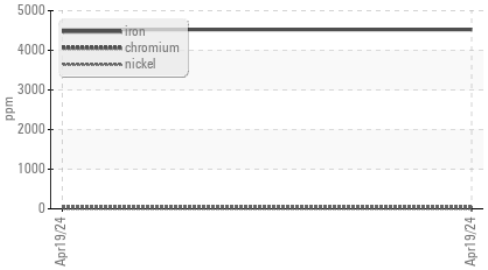
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>344	**240**	---	---
Sodium	ppm	ASTM D5185m	>170	**23**	---	---
Potassium	ppm	ASTM D5185m	>20	**15**	---	---

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	>.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

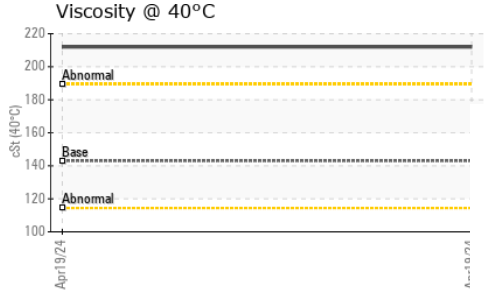
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Ferrous Alloys



Viscosity @ 40°C

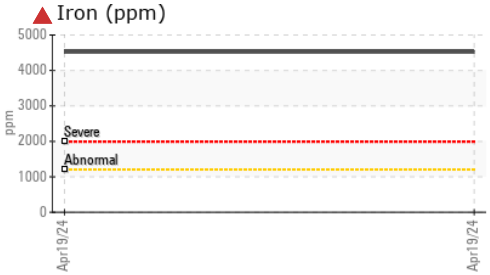


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	**212**	---	---

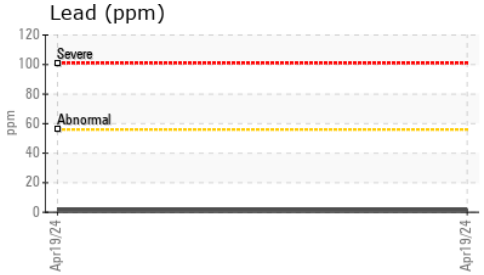
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

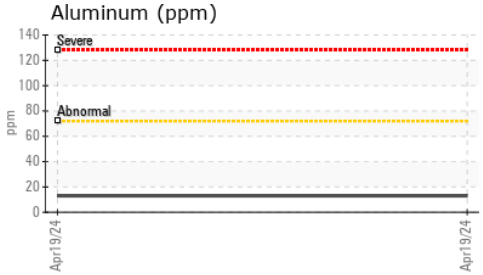
Iron (ppm)



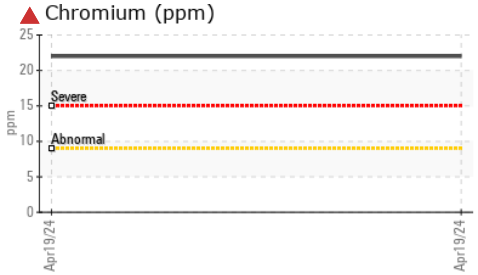
Lead (ppm)



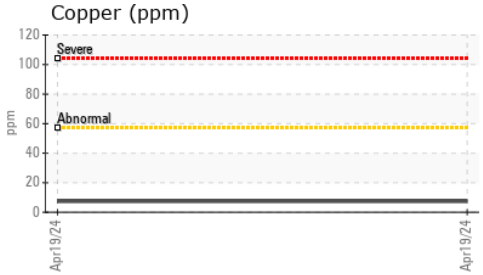
Aluminum (ppm)



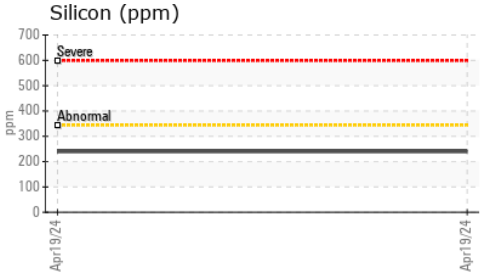
Chromium (ppm)



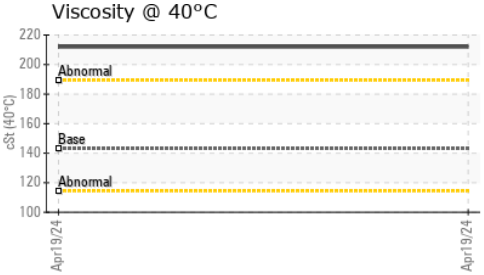
Copper (ppm)



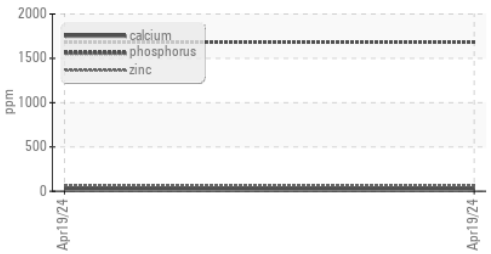
Silicon (ppm)



Viscosity @ 40°C



Additives



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122070
Lab Number : 06159937
Unique Number : 10995360
Test Package : MOB 1

Received : 24 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 26 Apr 2024 - Don Baldridge

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)

K5 CONSTRUCTION CORPORATION
6301 S EAST AVENUE
HODGKINS, IL
US 60525
Contact: NOELLE TERRAULT
noellet@k-five.net
T:
F:

Report Id: K5CWES [WUSCAR] 06159937 (Generated: 04/26/2024 12:38:15) Rev: 1

Submitted By: NOELLE TERRAULT