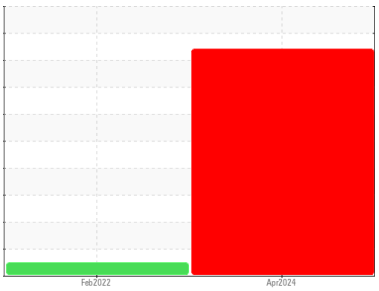
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
K5 CONSTRUCTION CORPORATION - HODGKINS IL
Machine Id
2028
Component
2 Conveyor Gearbox
Fluid
LEAHY WOLF SYNMASTER 75W90 (2 GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear
The iron level is severe for time on oil. Gear wear is indicated.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0122087**	LW0004298	---
Sample Date		Client Info		**19 Apr 2024**	11 Feb 2022	---
Machine Age	hrs	Client Info		**5847**	5818	---
Oil Age	hrs	Client Info		**29**	395	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**SEVERE**	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	>200	▲ **519**	81	---
Chromium	ppm	ASTM D5185m	>10	**5**	<1	---
Nickel	ppm	ASTM D5185m	>10	**<1**	0	---
Titanium	ppm	ASTM D5185m		**2**	0	---
Silver	ppm	ASTM D5185m		**0**	2	---
Aluminum	ppm	ASTM D5185m		● **30**	<1	---
Lead	ppm	ASTM D5185m		**0**	0	---
Copper	ppm	ASTM D5185m		**0**	<1	---
Tin	ppm	ASTM D5185m		**<1**	0	---
Antimony	ppm	ASTM D5185m	>5	**---**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	328	**273**	318	---
Barium	ppm	ASTM D5185m	1	**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	<1	---
Manganese	ppm	ASTM D5185m		**4**	<1	---
Magnesium	ppm	ASTM D5185m	1	**2**	0	---
Calcium	ppm	ASTM D5185m	7	**10**	5	---
Phosphorus	ppm	ASTM D5185m	1145	**1434**	1266	---
Zinc	ppm	ASTM D5185m	3	**19**	<1	---
Sulfur	ppm	ASTM D5185m	17909	**27133**	19073	---

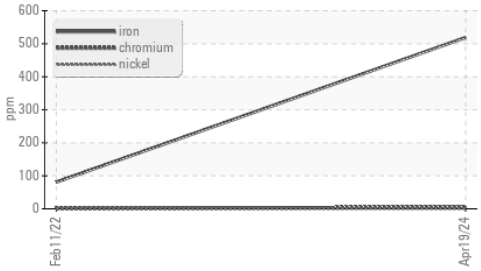
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		▲ **135**	7	---
Sodium	ppm	ASTM D5185m		**2**	0	---
Potassium	ppm	ASTM D5185m	>20	**9**	0	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	MODER	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
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	---

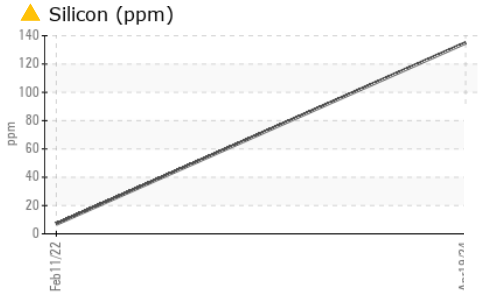
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

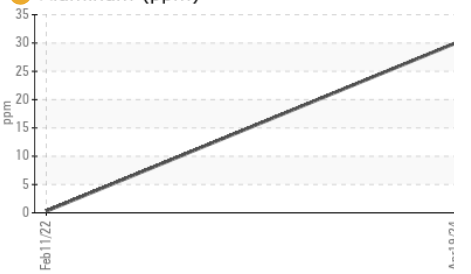
Ferrous Alloys



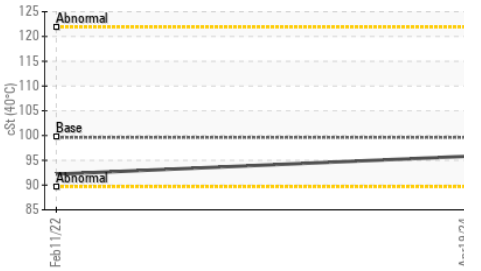
Silicon (ppm)



Aluminum (ppm)



Viscosity @ 40°C

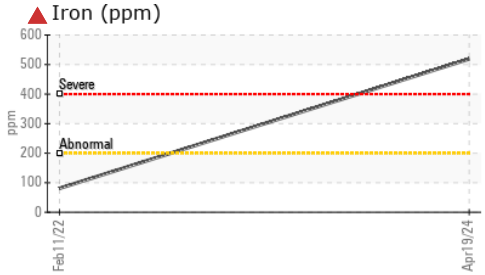


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	99.6	**95.8**	92.2	---

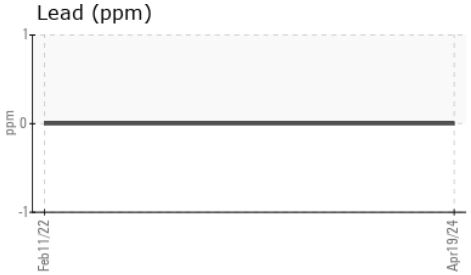
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

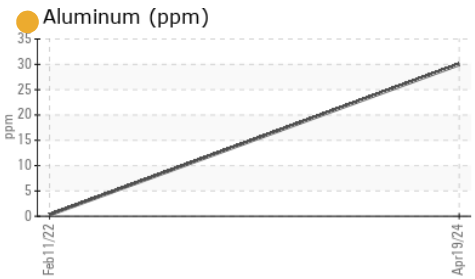
Iron (ppm)



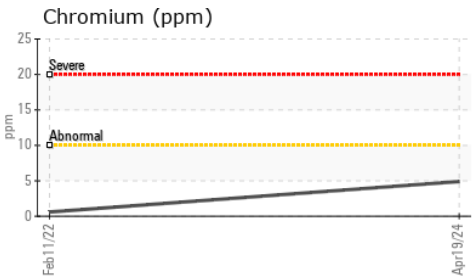
Lead (ppm)



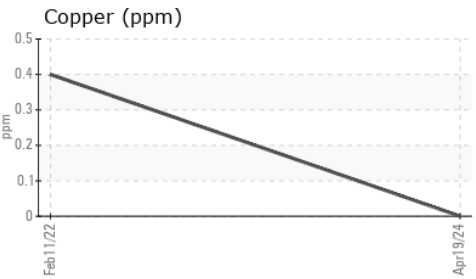
Aluminum (ppm)



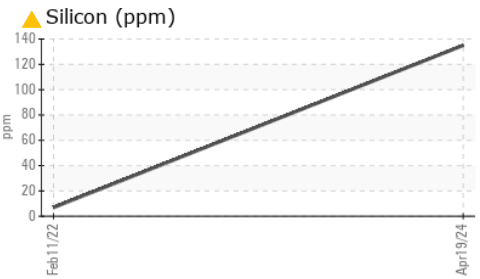
Chromium (ppm)



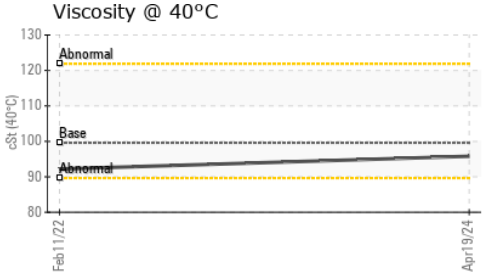
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

ANAB ACCREDITED TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122087
Lab Number : 06160791
Unique Number : 10996214
Test Package : MOB 1

Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 29 Apr 2024 - Don Baldridge

K5 CONSTRUCTION CORPORATION
6301 S EAST AVENUE
HODGKINS, IL
US 60525
Contact: FRANCISCO MUNOZ
franciscom@k-five.net
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)

Report Id: K5CWES [WUSCAR] 06160791 (Generated: 04/29/2024 11:41:08) Rev: 1

Submitted By: NOELLE TERRAULT