

Area  
**K5 CONSTRUCTION CORPORATION - HODGKINS IL**

Machine Id  
**2028**  
Component  
**2 Conveyor Gearbox**

Fluid  
**LEAHY WOLF SYNMASTER 75W90 (2 GAL)**

**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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0122087</b>	LW0004298	---
Sample Date		Client Info		<b>19 Apr 2024</b>	11 Feb 2022	---
Machine Age	hrs	Client Info		<b>5847</b>	5818	---
Oil Age	hrs	Client Info		<b>29</b>	395	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>SEVERE</b>	NORMAL	---

**WEAR**

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

Iron	ppm	ASTM D5185m	>200	<b>▲ 519</b>	81	---
Chromium	ppm	ASTM D5185m	>10	<b>5</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>2</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	2	---
Aluminum	ppm	ASTM D5185m		<b>● 30</b>	<1	---
Lead	ppm	ASTM D5185m		<b>0</b>	0	---
Copper	ppm	ASTM D5185m		<b>0</b>	<1	---
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

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

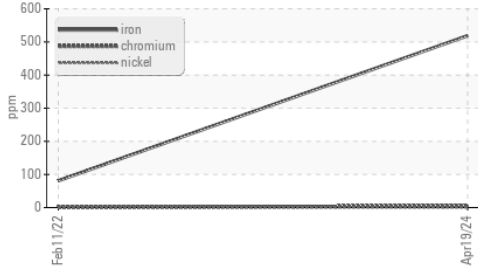
Silicon	ppm	ASTM D5185m		<b>▲ 135</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

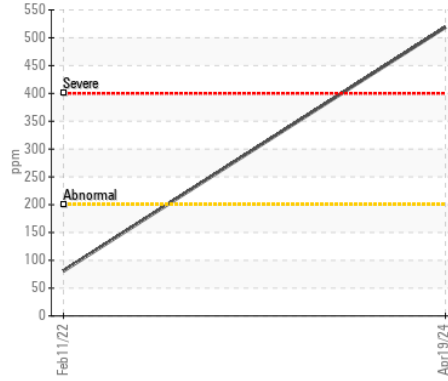
The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	---
Boron	ppm	ASTM D5185m	328	<b>273</b>	318	---
Barium	ppm	ASTM D5185m	1	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>4</b>	<1	---
Magnesium	ppm	ASTM D5185m	1	<b>2</b>	0	---
Calcium	ppm	ASTM D5185m	7	<b>10</b>	5	---
Phosphorus	ppm	ASTM D5185m	1145	<b>1434</b>	1266	---
Zinc	ppm	ASTM D5185m	3	<b>19</b>	<1	---
Sulfur	ppm	ASTM D5185m	17909	<b>27133</b>	19073	---
Visc @ 40°C	cSt	ASTM D445	99.6	<b>95.8</b>	92.2	---

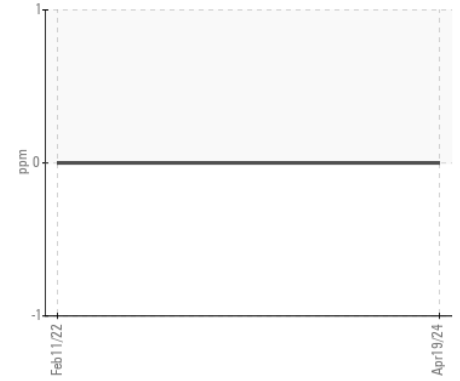
▲ Ferrous Alloys



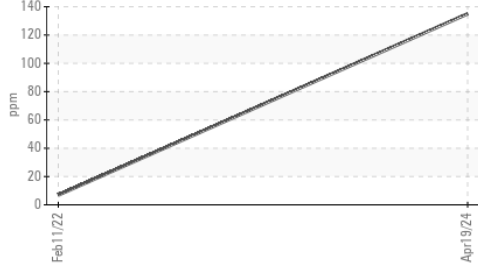
▲ Iron (ppm)



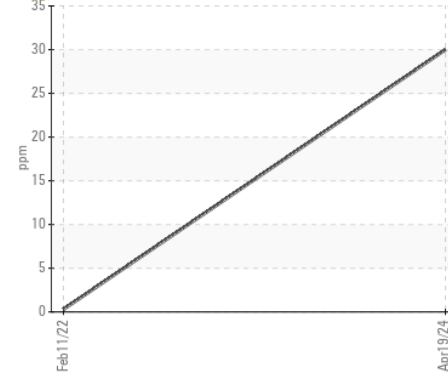
Lead (ppm)



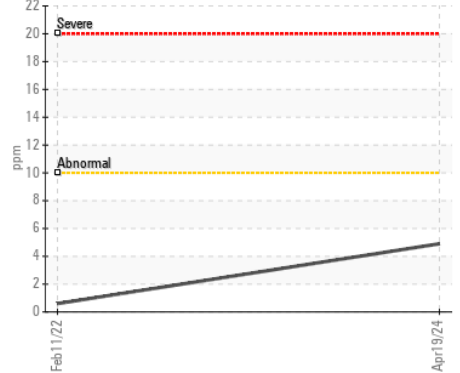
▲ Silicon (ppm)



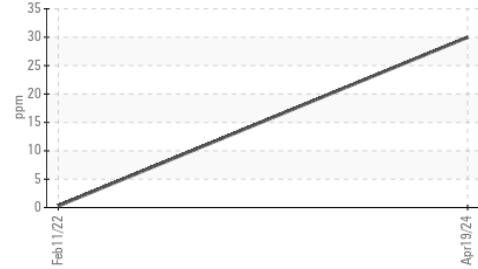
● Aluminum (ppm)



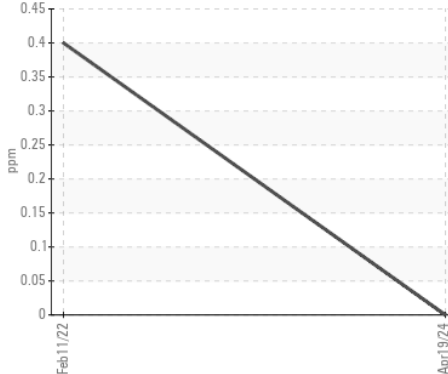
Chromium (ppm)



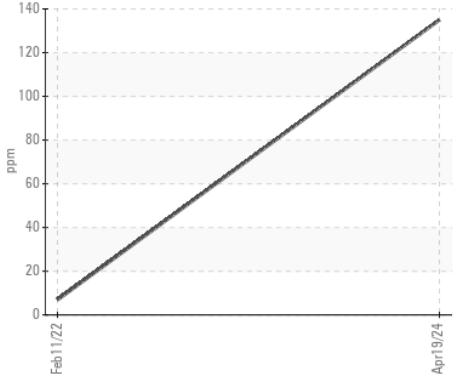
● Aluminum (ppm)



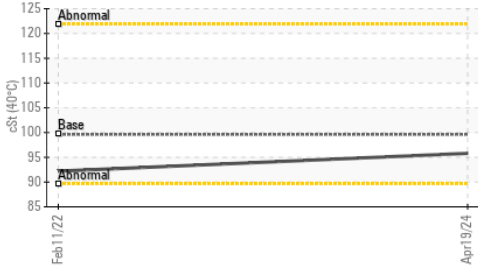
Copper (ppm)



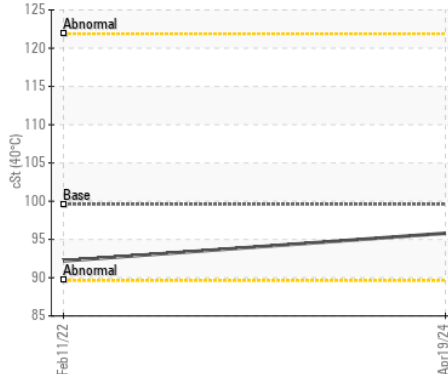
▲ Silicon (ppm)



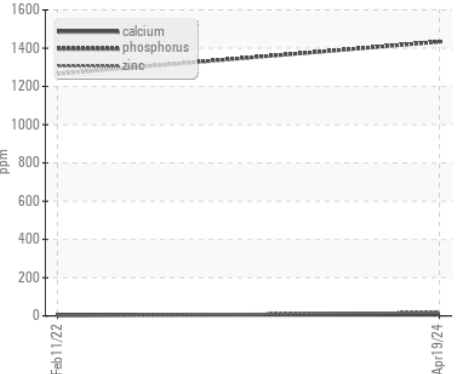
Viscosity @ 40°C



Viscosity @ 40°C



Additives



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 Baldrige

K5 CONSTRUCTION CORPORATION

6301 S EAST AVENUE

HODGKINS, IL

US 60525

Contact: FRANCISCO MUNOZ

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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)