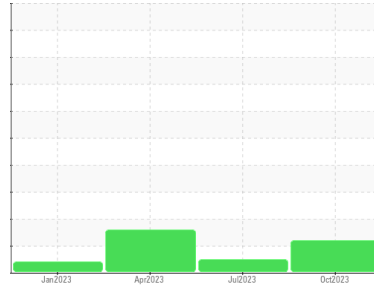




PROBLEM SUMMARY

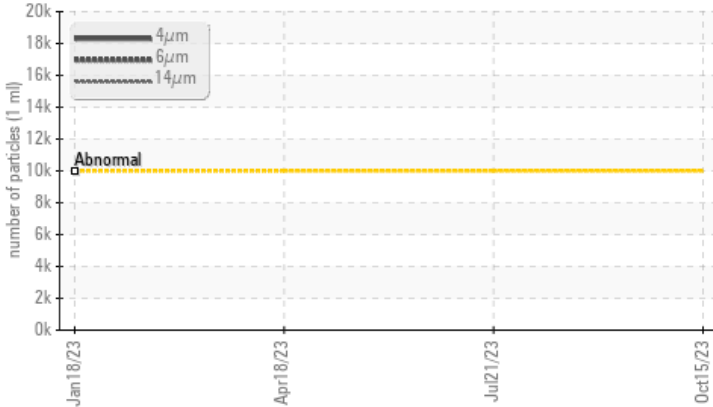
Sample Rating Trend



Area
[968542330]
 Machine Id
KR-GR-000293 - MARLEN VAC PUMP (S/N STUFF A - 11513100)
 Component
Hydraulic System
 Fluid
HYDRAULIC OIL FG ISO 100 (60 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>10000	▲ 19203	---	---
Particles >6µm	ASTM D7647	>2500	▲ 6014	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/16	▲ 21/20/16	---	---

Customer Id: KRAKIR
 Sample No.: PCA0106045
 Lab Number: 05979589
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

21 Jul 2023 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



18 Apr 2023 Diag: Don Baldrige

VISUAL METAL



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Moderate concentration of visible metal present. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report



18 Jan 2023 Diag: Don Baldrige

VIS DEBRIS



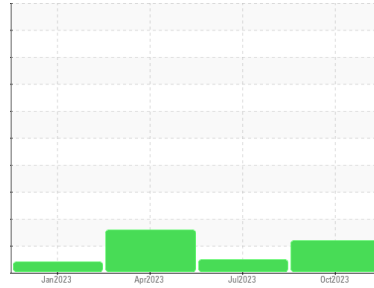
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
[968542330]
 Machine Id
KR-GR-000293 - MARLEN VAC PUMP (S/N STUFF A - 11513100)
 Component
Hydraulic System
 Fluid
HYDRAULIC OIL FG ISO 100 (60 GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0106045	PCA0102538	PCA0093099
Sample Date	Client Info	15 Oct 2023	21 Jul 2023	18 Apr 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	0	<1	0
Chromium	ppm	ASTM D5185m >20	0	1	0
Nickel	ppm	ASTM D5185m >20	0	1	0
Titanium	ppm	ASTM D5185m	0	1	0
Silver	ppm	ASTM D5185m	0	3	0
Aluminum	ppm	ASTM D5185m >20	<1	0	0
Lead	ppm	ASTM D5185m >20	0	8	0
Copper	ppm	ASTM D5185m >20	3	2	<1
Tin	ppm	ASTM D5185m >20	0	2	0
Vanadium	ppm	ASTM D5185m	0	2	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 5	0	<1	0
Barium	ppm	ASTM D5185m 5	0	0	0
Molybdenum	ppm	ASTM D5185m 5	0	<1	0
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m 5	0	19	<1
Calcium	ppm	ASTM D5185m 12	0	0	0
Phosphorus	ppm	ASTM D5185m 400	267	57	8
Zinc	ppm	ASTM D5185m 12	0	0	0
Sulfur	ppm	ASTM D5185m 650	779	255	34

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	6	3	3
Sodium	ppm	ASTM D5185m	<1	43	0
Potassium	ppm	ASTM D5185m >20	0	100	1

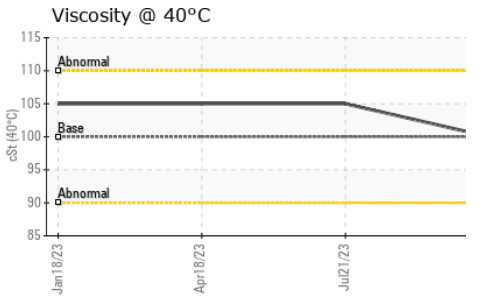
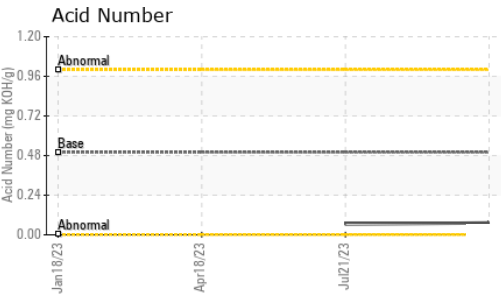
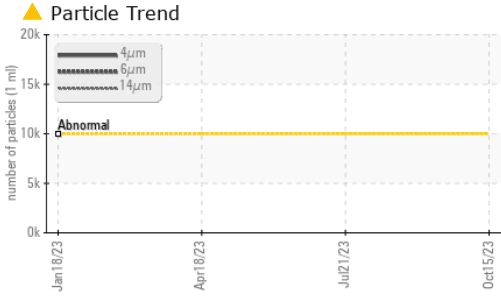
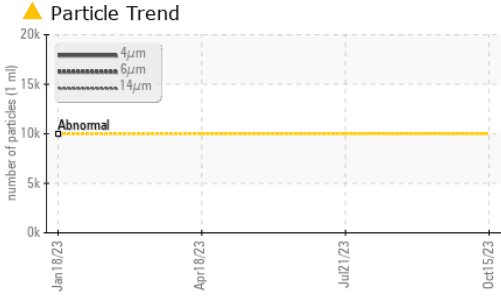
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 19203	---	---
Particles >6µm	ASTM D7647 >2500	▲ 6014	---	---
Particles >14µm	ASTM D7647 >640	445	---	---
Particles >21µm	ASTM D7647 >160	109	---	---
Particles >38µm	ASTM D7647 >40	9	---	---
Particles >71µm	ASTM D7647 >10	2	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/16	▲ 21/20/16	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.50	0.072	0.065	---

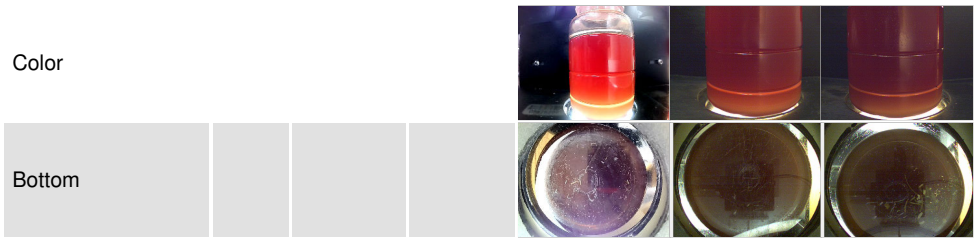
OIL ANALYSIS REPORT



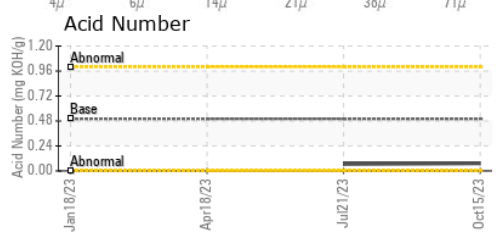
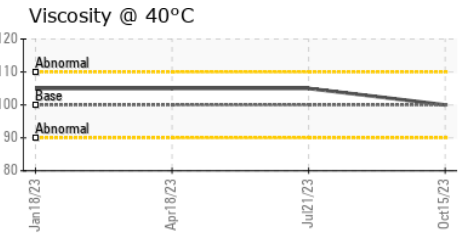
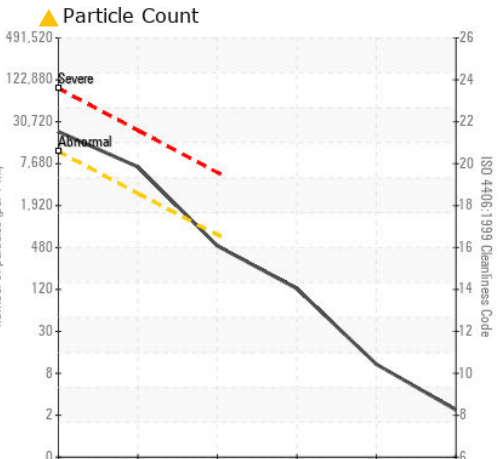
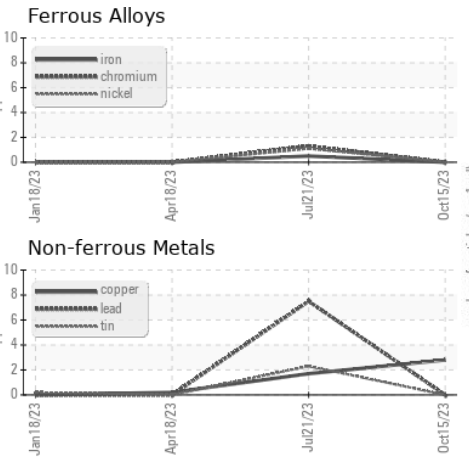
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	100	100	105	105

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106045 **Received** : 16 Oct 2023
Lab Number : 05979589 **Diagnosed** : 18 Oct 2023
Unique Number : 10696884 **Diagnostician** : Jonathan Hester
Test Package : IND 2

KraftHeinz - Kirksville - Plant 8333 PCA
 2504 INDUSTRIAL DR
 KIRKSVILLE, MO
 US 63501
 Contact: WALLACE WARD
 wallace.ward@kraftheinzcompany.com
 T: (660)627-1031
 F: (660)627-5887

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)