

# **OIL ANALYSIS REPORT**

#### Area STUFF ROOM A [98737359] Machine to KR-GR-000293 - MARLEN VAC PUMP (S/N STUFF A - 11513100) Component

Vacuum Pump

Fluid HYDRAULIC OIL FG ISO 100 (--- GAL)

## DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. ( Customer Sample Comment: 98737359 )

### Wear

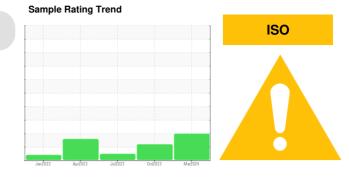
All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

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



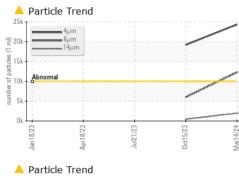
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113106	PCA0106045	PCA0102538
Sample Date		Client Info		14 Mar 2024	15 Oct 2023	21 Jul 2023
Machine Age		Client Info		0	0	0
Oil Age		Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>20	0	0	1
Titanium	ppm	ASTM D5185m		<1	0	1
Silver	ppm	ASTM D5185m		0	0	3
Aluminum	ppm	ASTM D5185m	>20	3	<1	0
Lead	ppm	ASTM D5185m	>20	<1	0	8
Copper	ppm	ASTM D5185m	>20	3	3	2
Tin	ppm	ASTM D5185m	>20	<1	0	2
Vanadium	ppm	ASTM D5185m		<1	0	2
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	<1
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	5	<1	0	19
Calcium	ppm	ASTM D5185m	12	4	0	0
Phosphorus	ppm	ASTM D5185m	400	510	267	57
Zinc	ppm	ASTM D5185m	12	8	0	0
Sulfur	ppm	ASTM D5185m	650	1311	779	255
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	6	3
Sodium	ppm	ASTM D5185m		4	<1	43
Potassium	ppm	ASTM D5185m	>20	2	0	100
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>A</b> 24333	<b>1</b> 9203	
Particles >6µm		ASTM D7647	>2500	🔺 12287	6014	
Particles >14µm		ASTM D7647	>640	<u> </u>	445	
Particles >21µm		ASTM D7647	>160	<u> </u>	109	
Particles >38µm		ASTM D7647	>40	26	9	
Particles >71µm		ASTM D7647	>10	2	2	
Oil Cleanliness		ISO 4406 (c)	>20/18/16	<b>22/21/18</b>	▲ 21/20/16	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.50	0.07	0.072	0.065
15:14) Dov: 1				C h	a al D M/illa a sta	Daahaaa Carala

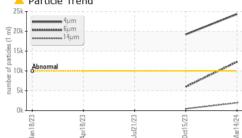
Report Id: KRAKIR [WUSCAR] 06133236 (Generated: 04/05/2024 12:15:14) Rev: 1

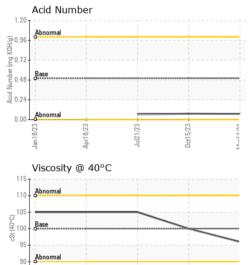
Submitted By: Wilberto Pacheco Garcia



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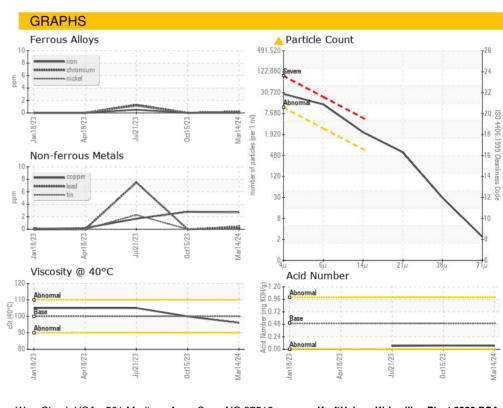
Jul21/23 -

Apr18/23

85

Jan 18/23

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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	NONE	LIGHT	NONE
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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	96.01	100	105
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						
Bottom						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 KraftHeinz - Kirksville - Plant 8333 PCA 2504 INDUSTRIAL DR Sample No. : PCA0113106 Received : 29 Mar 2024 Lab Number : 06133236 Tested : 05 Apr 2024 KIRKSVILLE, MO Unique Number : 10952701 Diagnosed : 05 Apr 2024 - Jonathan Hester US 63501 Test Package : IND 2 (Additional Tests: PrtCount) Contact: WALLACE WARD Certificate 12367 wallace.ward@kraftheinzcompany.com To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (660)627-1031 \* - 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) F: (660)627-5887

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