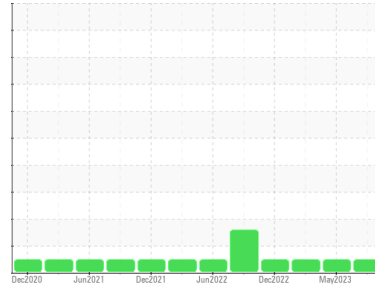




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
MS-1 - A STUFF
 Component
Pump
 Fluid
USPI VAC 100 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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	USPM29377	USPM28398	USPM28509
Sample Date	Client Info	18 Aug 2023	24 May 2023	31 Mar 2023
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >90	12	6	8
Chromium	ppm ASTM D5185m >5	0	<1	0
Nickel	ppm ASTM D5185m >5	0	<1	0
Titanium	ppm ASTM D5185m >3	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >7	0	<1	2
Lead	ppm ASTM D5185m >12	0	<1	0
Copper	ppm ASTM D5185m >30	0	0	0
Tin	ppm ASTM D5185m >9	<1	<1	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	0	<1	2
Barium	ppm ASTM D5185m 0	<1	0	0
Molybdenum	ppm ASTM D5185m 0	0	0	0
Manganese	ppm ASTM D5185m	0	<1	<1
Magnesium	ppm ASTM D5185m 0	1	<1	3
Calcium	ppm ASTM D5185m 0	19	12	19
Phosphorus	ppm ASTM D5185m 1800	1244	1309	1553
Zinc	ppm ASTM D5185m 0	41	41	99
Sulfur	ppm ASTM D5185m 0	29	0	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >60	5	5	1
Sodium	ppm ASTM D5185m	8	5	13
Potassium	ppm ASTM D5185m >20	1	3	<1
Water	% ASTM D6304	0.065	0.058	0.071
ppm Water	ppm ASTM D6304 >.1	651.1	581.8	711.1

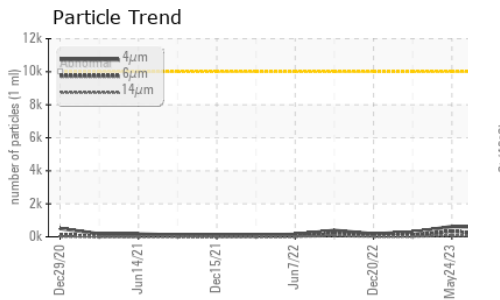
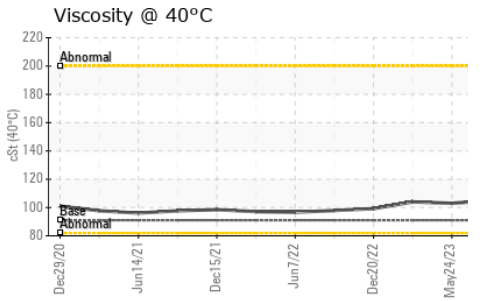
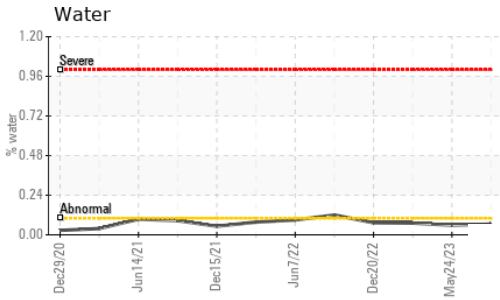
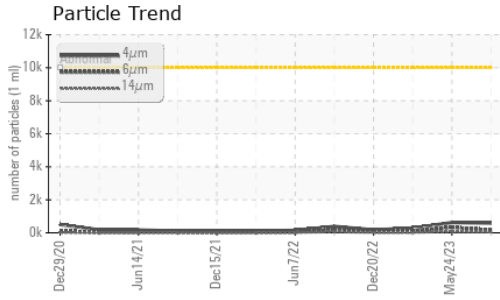
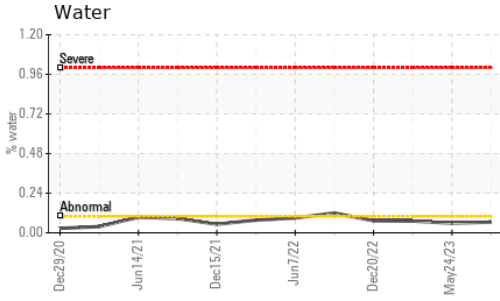
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	583	624	284
Particles >6µm	ASTM D7647 >2500	166	326	81
Particles >14µm	ASTM D7647 >640	34	57	11
Particles >21µm	ASTM D7647 >160	10	9	2
Particles >38µm	ASTM D7647 >40	0	0	0
Particles >71µm	ASTM D7647 >10	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/16	16/15/12	16/16/13	15/14/11

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.05	1.02	1.21	3.17

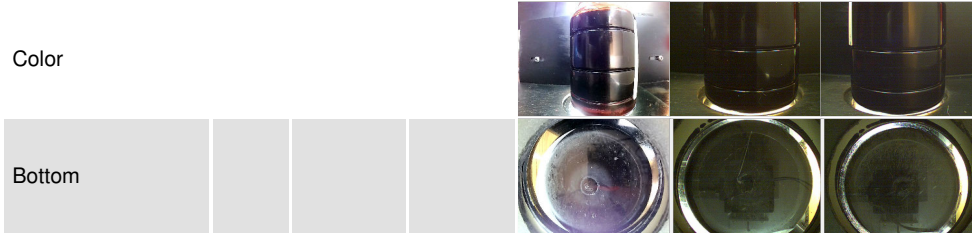
OIL ANALYSIS REPORT



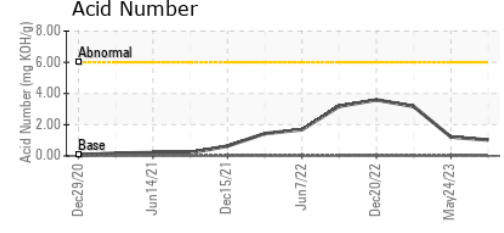
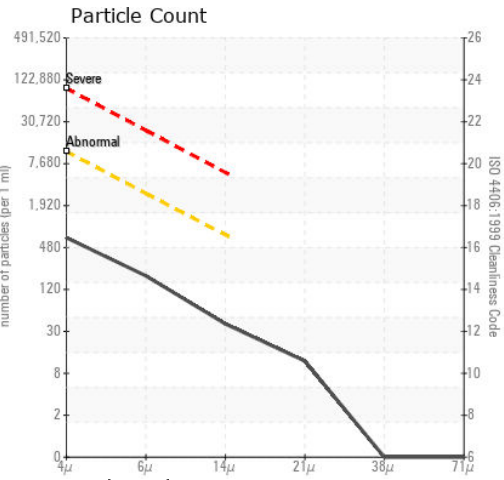
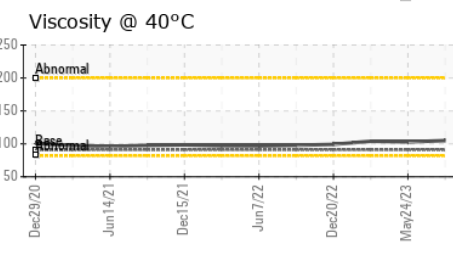
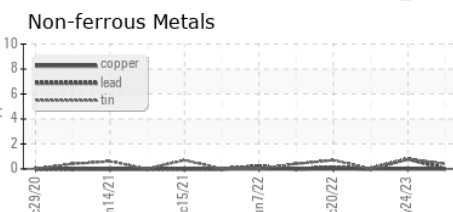
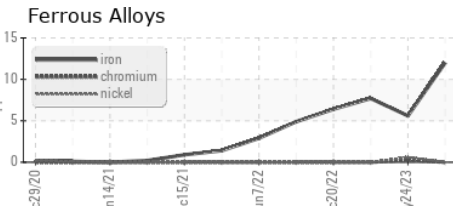
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	105	103	104

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM29377 **Received** : 24 Aug 2023
Lab Number : 05933689 **Diagnosed** : 25 Aug 2023
Unique Number : 10618960 **Diagnostician** : Doug Bogart
Test Package : IND 2

KraftHeinz - Davenport - Plant 8394
 9401 GRANITE DRIVE
 DAVENPORT, IA
 US 52802
 Contact: JOHN KONRAD
 john.konrad@kraftheinz.com
 T:
 F: (563)326-8391

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)