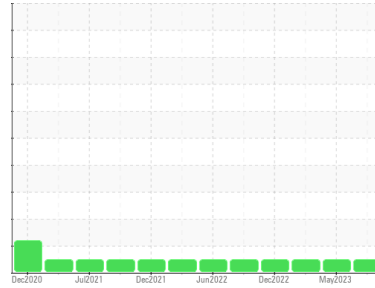




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
C1 TUMBLER
 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

An increase in the AN level is noted. Confirmed. 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		USPM29398	USPM28413	USPM28524
Sample Date	Client Info		17 Aug 2023	23 May 2023	30 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	39	35	37
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	<1	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	2	2	0
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	3	<1	0
Calcium	ppm	ASTM D5185m 0	15	9	5
Phosphorus	ppm	ASTM D5185m 1800	1575	1600	1523
Zinc	ppm	ASTM D5185m 0	15	10	8
Sulfur	ppm	ASTM D5185m 0	82	37	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	6	5	4
Sodium	ppm	ASTM D5185m	13	12	12
Potassium	ppm	ASTM D5185m >20	4	6	2
Water	%	ASTM D6304	0.092	0.087	0.056
ppm Water	ppm	ASTM D6304 >.1	926.7	873.4	567.3

FLUID CLEANLINESS

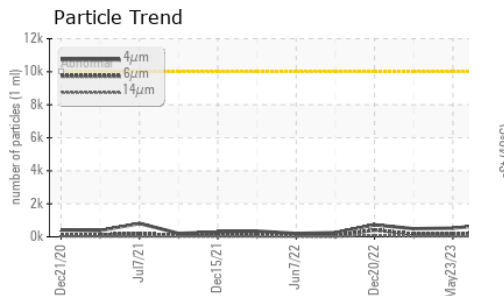
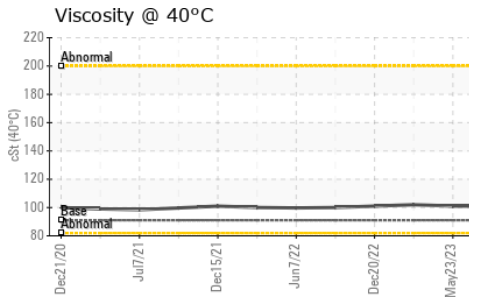
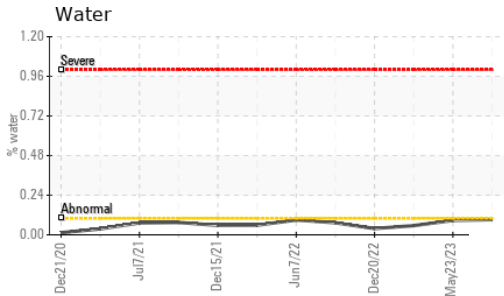
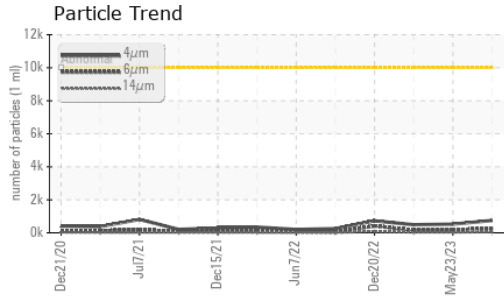
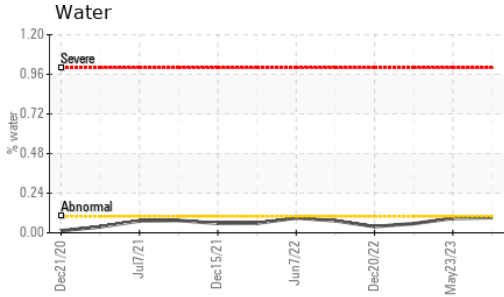
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	748	525	490
Particles >6µm	ASTM D7647	>2500	278	167	159
Particles >14µm	ASTM D7647	>640	42	25	23
Particles >21µm	ASTM D7647	>160	9	4	4
Particles >38µm	ASTM D7647	>40	0	0	1
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/16	17/15/13	16/15/12	16/14/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	4.08	3.02	3.39



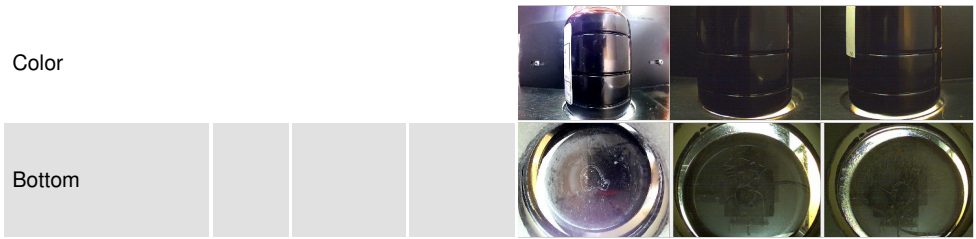
OIL ANALYSIS REPORT



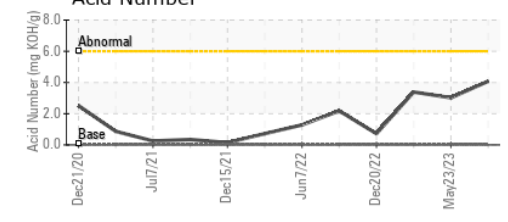
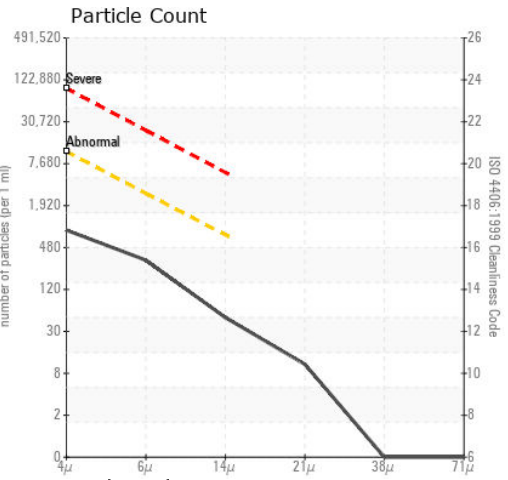
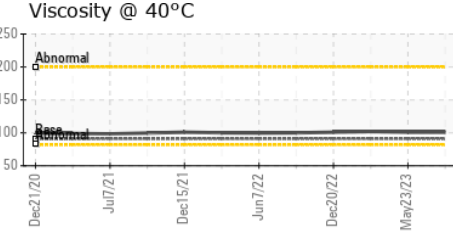
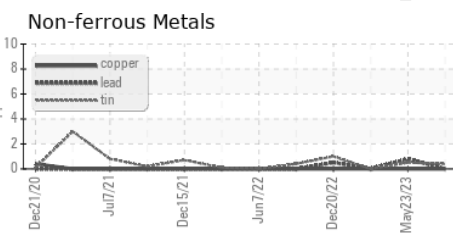
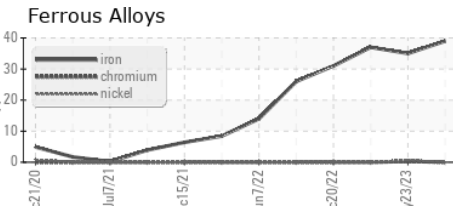
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	101	101	102

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM29398 **Received** : 24 Aug 2023
Lab Number : 05933692 **Diagnosed** : 25 Aug 2023
Unique Number : 10618963 **Diagnostician** : Doug Bogart
Test Package : IND 2

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 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)