



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



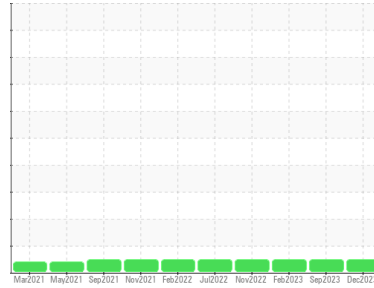
Machine Id
B3 SARAN LINE SOUTH (S/N U152000156)

Component

Pump

Fluid

USPI VAC 100 (--- GAL)



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	USPM31999	USPM29576	USPM26543
Sample Date	Client Info	05 Dec 2023	11 Sep 2023	27 Feb 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	18	16	9
Chromium	ppm ASTM D5185m >5	0	0	0
Nickel	ppm ASTM D5185m >5	0	0	0
Titanium	ppm ASTM D5185m >3	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >7	<1	0	<1
Lead	ppm ASTM D5185m >12	0	0	0
Copper	ppm ASTM D5185m >30	<1	0	0
Tin	ppm ASTM D5185m >9	6	6	5
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	0	0
Barium	ppm ASTM D5185m 0	0	0	3
Molybdenum	ppm ASTM D5185m 0	0	0	0
Manganese	ppm ASTM D5185m	<1	<1	1
Magnesium	ppm ASTM D5185m 0	0	0	0
Calcium	ppm ASTM D5185m 0	2	<1	1
Phosphorus	ppm ASTM D5185m 1800	1356	1546	1519
Zinc	ppm ASTM D5185m 0	0	0	2
Sulfur	ppm ASTM D5185m 0	0	8	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >60	<1	<1	1
Sodium	ppm ASTM D5185m	7	4	1
Potassium	ppm ASTM D5185m >20	3	2	2
Water	% ASTM D6304 >.1	0.041	0.069	0.049
ppm Water	ppm ASTM D6304 >1000	411	698.1	498.4

FLUID CLEANLINESS

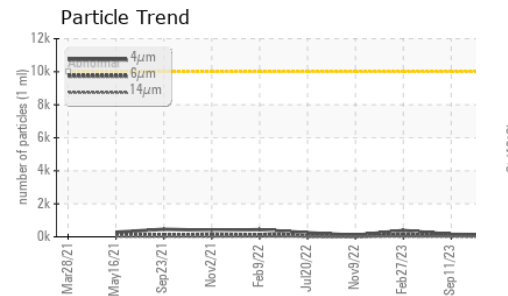
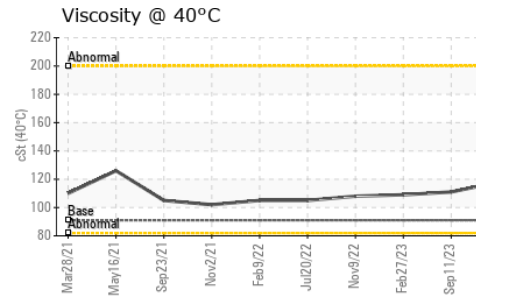
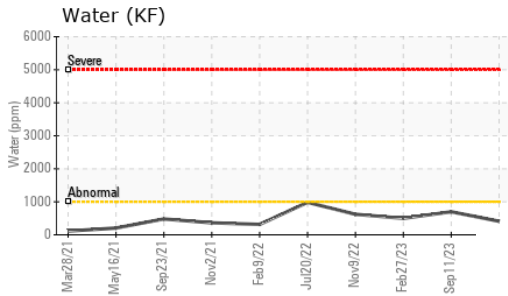
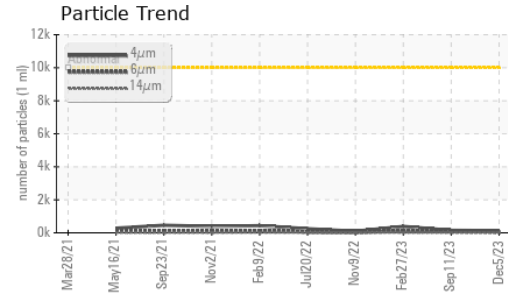
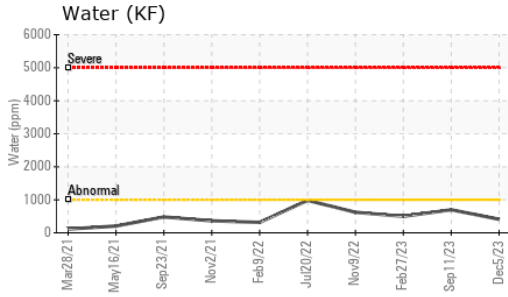
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	133	147	387
Particles >6µm	ASTM D7647 >2500	49	63	108
Particles >14µm	ASTM D7647 >640	11	10	13
Particles >21µm	ASTM D7647 >160	2	2	5
Particles >38µm	ASTM D7647 >40	0	0	0
Particles >71µm	ASTM D7647 >10	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/16	14/13/11	14/13/10	16/14/11

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.05	0.92	0.83	0.59



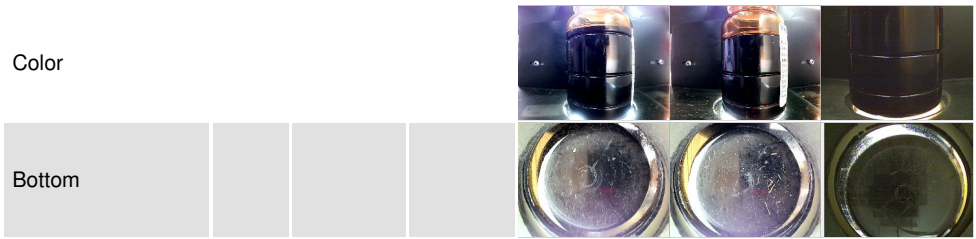
OIL ANALYSIS REPORT



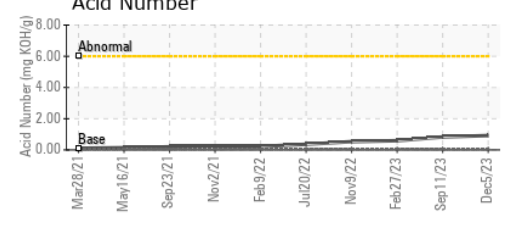
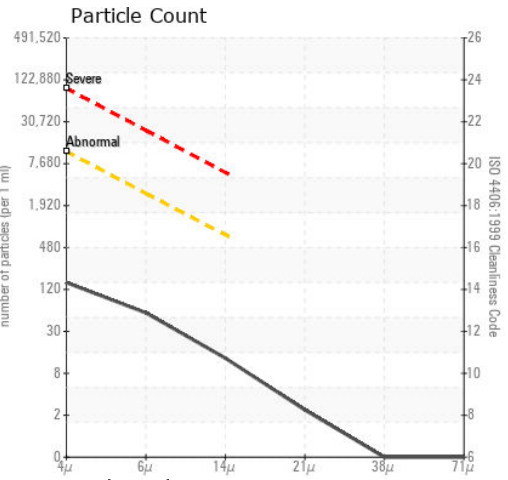
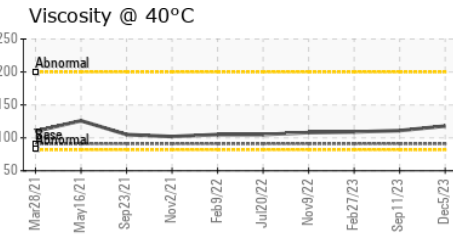
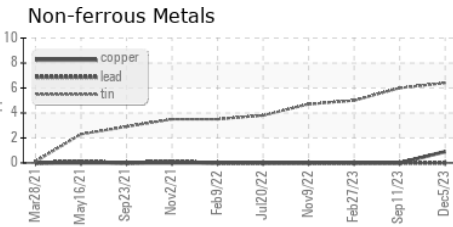
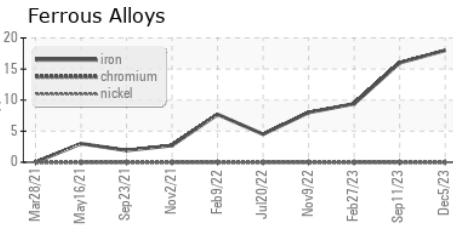
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	118	111	109

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM31999
Lab Number : 06026482
Unique Number : 10776273
Test Package : IND 2

KraftHeinz - Columbia - Plant 8330 USP
 4600 WACO RD
 COLUMBIA, MO
 US 65202
 Contact: Service Manager

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)

T:
F: