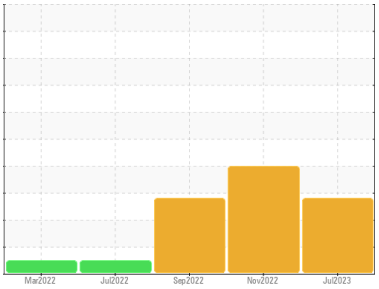
PROBLEM SUMMARY

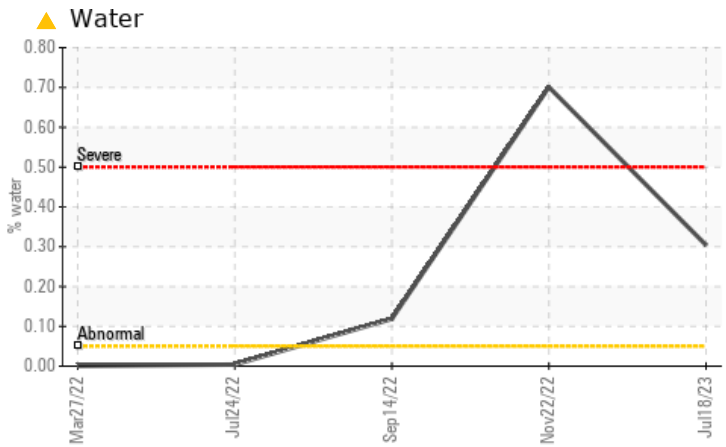
Sample Rating Trend

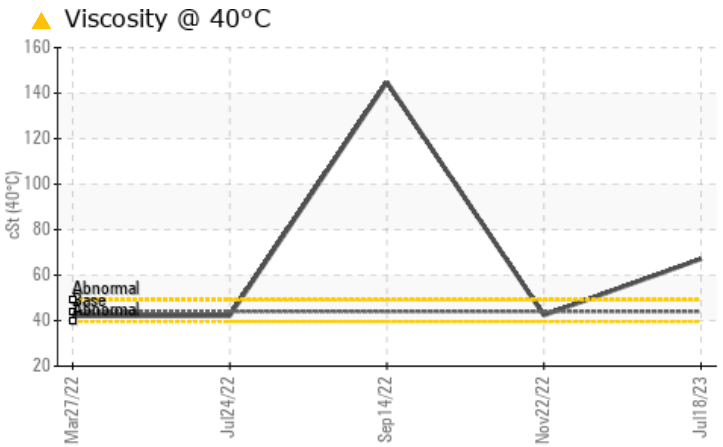


WATER

Machine Id
HPU 5 - GALLON LINE DUMPER
Component
Hydraulic System
Fluid
USPI FG HYD 46 (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ATTENTION
Water	%	ASTM D6304	>0.05	▲ **0.304**	▲ 0.701	▲ 0.119
ppm Water	ppm	ASTM D6304	>500	▲ **3040**	▲ 7010	▲ 1190
Appearance	scalar	*Visual	NORML	▲ **HAZY**	▲ MILKY	NORML
Visc @ 40°C	cSt	ASTM D445	44	▲ **67.16**	42.4	▲ 144.8

Customer Id: KRAWOOIL
Sample No.: USPM27365
Lab Number: 05902319
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

22 Nov 2022 Diag: Doug Bogart

WATER

We advise that you follow the water drain-off procedure for this component and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. There is too much water present in this sample to perform a particle count.All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report

14 Sep 2022 Diag: Doug Bogart

WATER

We advise an early resample to confirm this situation.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. There is a trace of moisture present in the oil. The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.

view report

24 Jul 2022 Diag: Doug Bogart

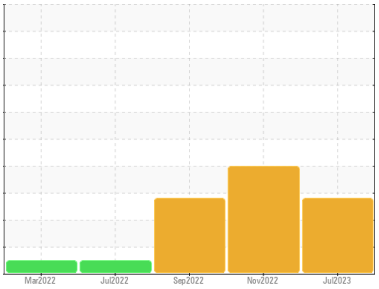
NORMAL

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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
HPU 5 - GALLON LINE DUMPER
Component
Hydraulic System
Fluid
USPI FG HYD 46 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Appearance is hazy. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition
The oil viscosity is higer than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USPM27365**	USPM24320	USP05676718
Sample Date		Client Info		**18 Jul 2023**	22 Nov 2022	14 Sep 2022
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				**ABNORMAL**	ABNORMAL	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**0**	0	2
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	0	<1
Copper	ppm	ASTM D5185m	>20	**0**	0	0
Tin	ppm	ASTM D5185m	>20	**0**	0	<1
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
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**0**	0	<1
Phosphorus	ppm	ASTM D5185m	725	**555**	332	529
Zinc	ppm	ASTM D5185m		**0**	0	0
Sulfur	ppm	ASTM D5185m	625	**826**	1217	617

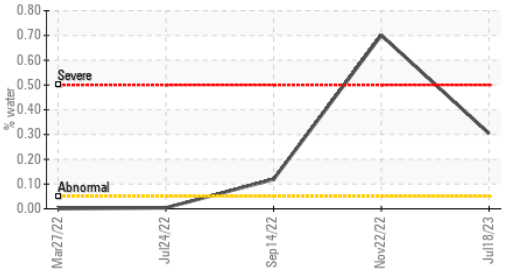
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**1**	2	0
Sodium	ppm	ASTM D5185m		**0**	<1	0
Potassium	ppm	ASTM D5185m	>20	**0**	0	0
Water	%	ASTM D6304	>0.05	▲ **0.304**	▲ 0.701	▲ 0.119
ppm Water	ppm	ASTM D6304	>500	▲ **3040**	▲ 7010	▲ 1190

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**4939**	---	▲ 12472
Particles >6µm		ASTM D7647	>2500	**411**	---	1147
Particles >14µm		ASTM D7647	>640	**22**	---	16
Particles >21µm		ASTM D7647	>160	**9**	---	4
Particles >38µm		ASTM D7647	>40	**5**	---	1
Particles >71µm		ASTM D7647	>10	**5**	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/16	**19/16/12**	---	▲ 21/17/11

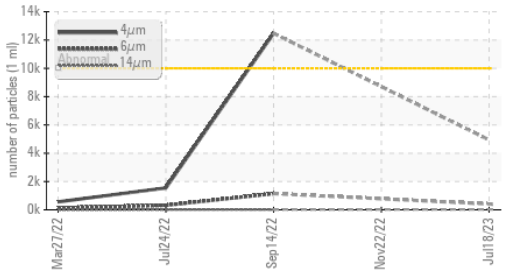
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	**0.23**	0.28	0.56

OIL ANALYSIS REPORT

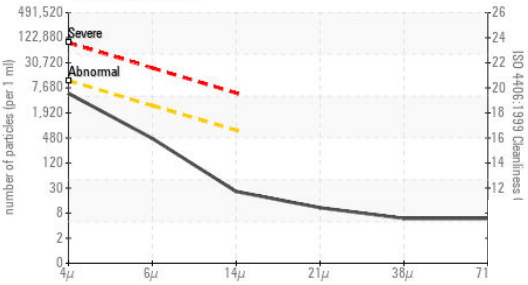
Water



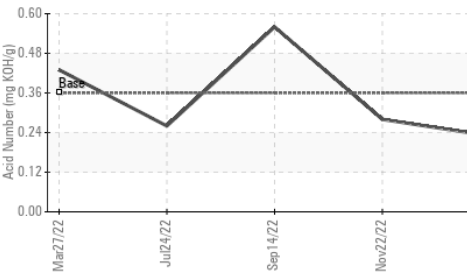
Particle Trend



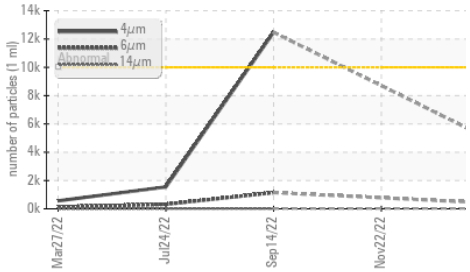
Particle Count



Acid Number

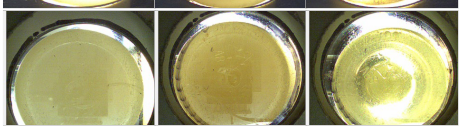


Particle Trend



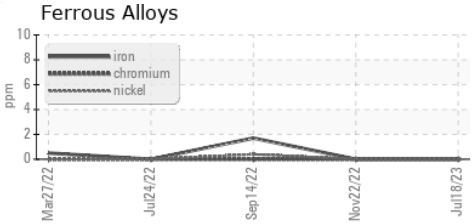
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **HAZY**	▲ MILKY	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**0.2%**	▲ 0.2%	0.2%
Free Water	scalar	*Visual		**NEG**	▲ 1.0	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44	▲ **67.16**	42.4	▲ 144.8

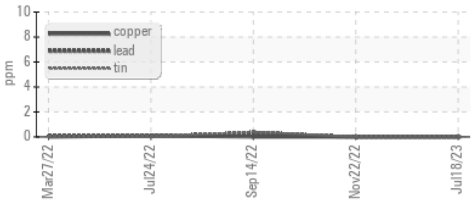
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

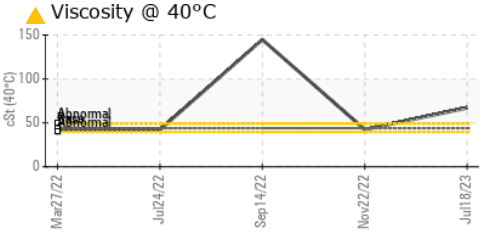
Ferrous Alloys



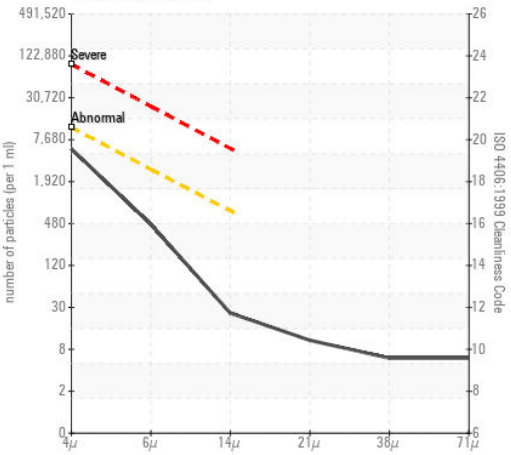
Non-ferrous Metals



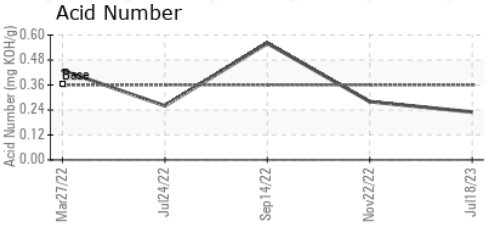
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM27365
Lab Number : 05902319
Unique Number : 10563675
Test Package : IND 2

Received : 19 Jul 2023
Diagnosed : 21 Jul 2023
Diagnostician : Doug Bogart

KraftHeinz - Woodstock - Plant 8337
1300 CLAUSSEN DR
WOODSTOCK, IL
US 60098
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: