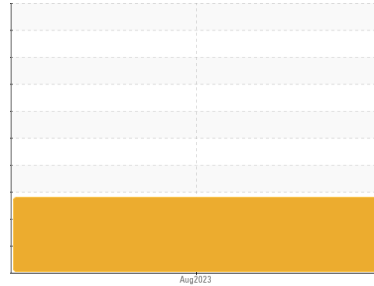




PROBLEM SUMMARY

Sample Rating Trend

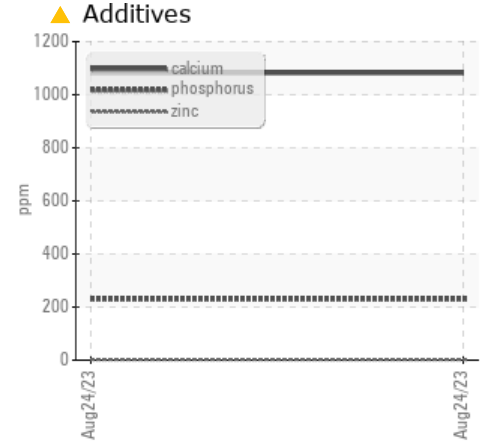
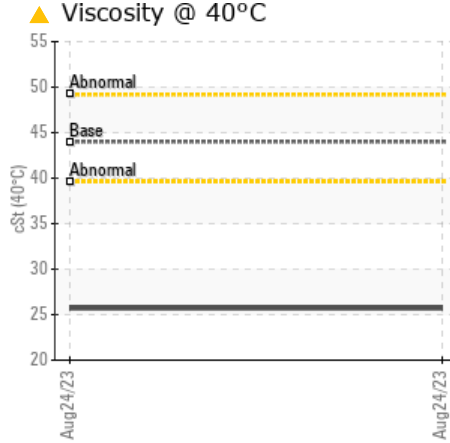
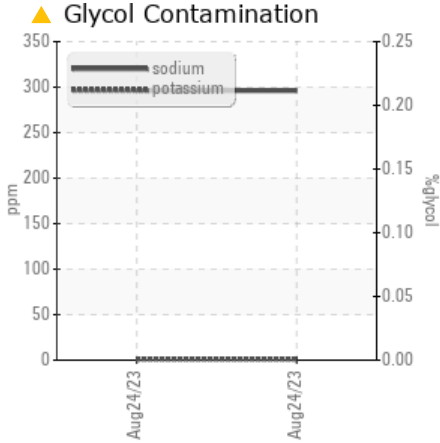


COOL CHEMICALS



Machine Id
HUSKY H8
 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	ATTENTION	---	---			
Calcium	ppm	ASTM D5185m	725	▲ 1082	---	---
Phosphorus	ppm	ASTM D5185m	625	▲ 230	---	---
Sulfur	ppm	ASTM D5185m	296	▲ 2238	---	---
Sodium	ppm	ASTM D5185m	44	▲ 25.7	---	---
Visc @ 40°C	cSt	ASTM D445			---	---

Customer Id: NIAYUK
 Sample No.: USP0000430
 Lab Number: 05935490
 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

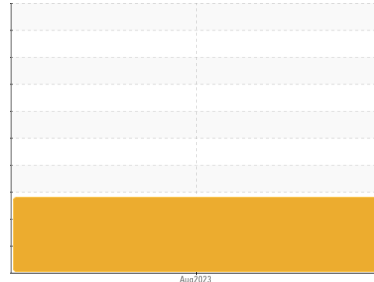
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



COOL CHEMICALS



Machine Id
HUSKY H8
 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

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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USP0000430	---	---
Sample Date	Client Info	24 Aug 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	<1	---	---
Chromium ppm ASTM D5185m	>20	0	---	---
Nickel ppm ASTM D5185m	>20	0	---	---
Titanium ppm ASTM D5185m		0	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>20	<1	---	---
Lead ppm ASTM D5185m	>20	<1	---	---
Copper ppm ASTM D5185m	>20	<1	---	---
Tin ppm ASTM D5185m	>20	0	---	---
Vanadium ppm ASTM D5185m		0	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		0	---	---
Barium ppm ASTM D5185m		3	---	---
Molybdenum ppm ASTM D5185m		0	---	---
Manganese ppm ASTM D5185m		0	---	---
Magnesium ppm ASTM D5185m		3	---	---
Calcium ppm ASTM D5185m		▲ 1082	---	---
Phosphorus ppm ASTM D5185m	725	▲ 230	---	---
Zinc ppm ASTM D5185m		2	---	---
Sulfur ppm ASTM D5185m	625	▲ 2238	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	4	---	---
Sodium ppm ASTM D5185m		▲ 296	---	---
Potassium ppm ASTM D5185m	>20	1	---	---
Water % ASTM D6304	>0.05	0.065	---	---
ppm Water ppm ASTM D6304	>500	655.8	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	2050	---	---
Particles >6µm ASTM D7647	>1300	481	---	---
Particles >14µm ASTM D7647	>160	29	---	---
Particles >21µm ASTM D7647	>40	6	---	---
Particles >38µm ASTM D7647	>10	0	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	18/16/12	---	---

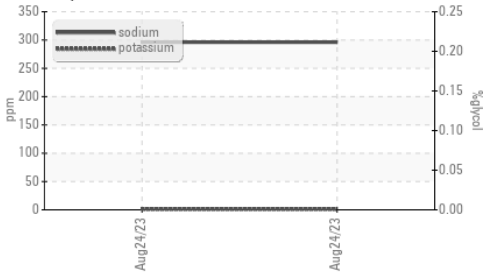
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.36	0.504	---	---

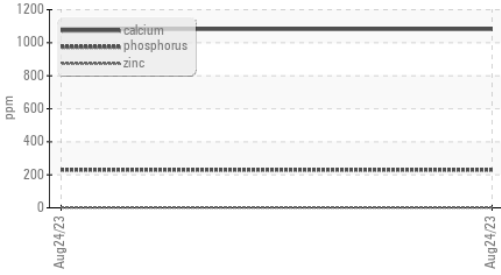


OIL ANALYSIS REPORT

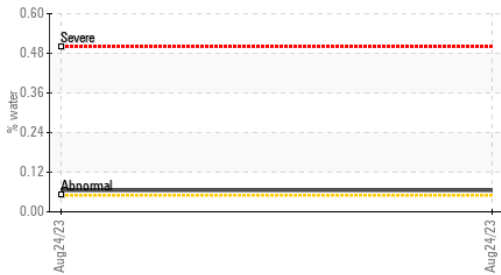
▲ Glycol Contamination



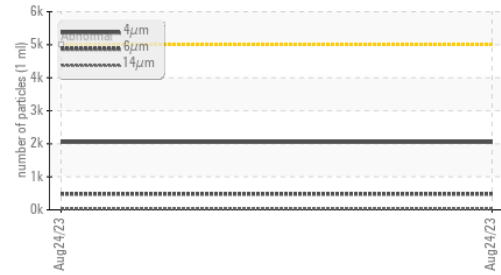
▲ Additives



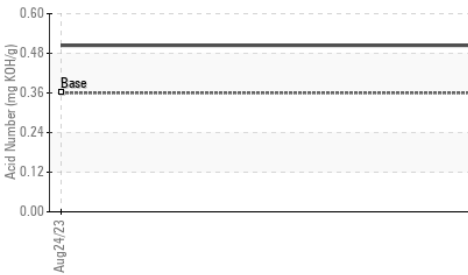
Water



Particle Trend



Acid Number



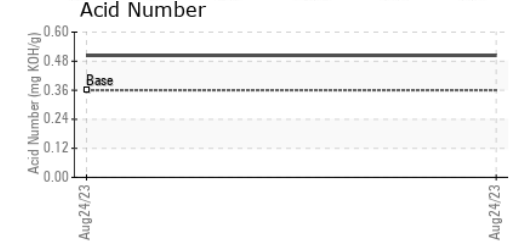
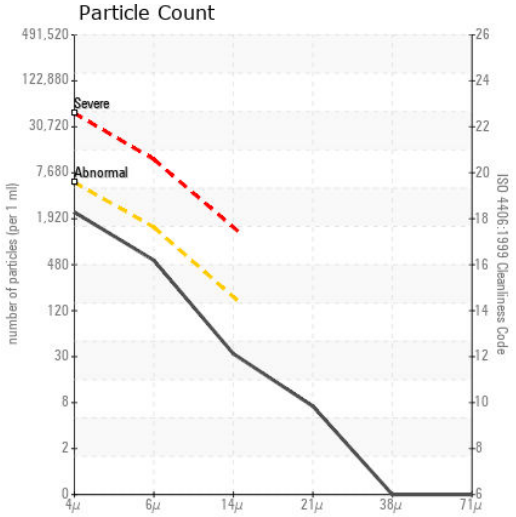
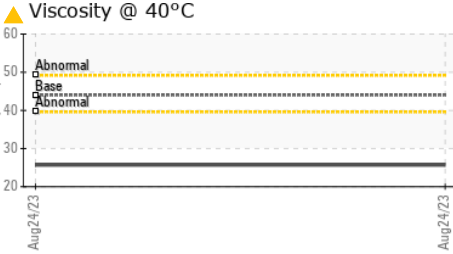
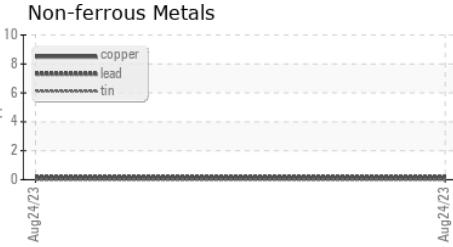
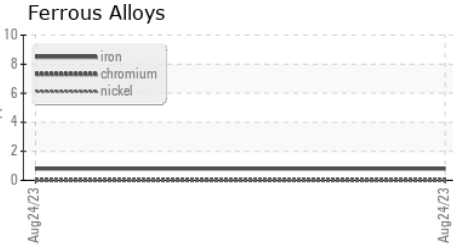
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44 ▲ 25.7	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0000430 **Received** : 25 Aug 2023
Lab Number : 05935490 **Diagnosed** : 29 Aug 2023
Unique Number : 10620761 **Diagnostician** : Doug Bogart
Test Package : IND 2

NIAGARA BOTTLING
 500 N SARA RD
 YUKON, OK
 US 73099
 Contact: DON LEVINGS
 dlevings@niagarawater.com
 T: (580)628-0101
 F:

Certificate L2367
 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)