



PROBLEM SUMMARY

Sample Rating Trend



ISO



Machine Id
KILL HPU
 Component
Hydraulic System
 Fluid
HYDRAULIC ISO 46 (10 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >4µm	ASTM D7647	>20000	▲ 60790	---	---
Particles >6µm	ASTM D7647	>2500	▲ 4270	---	---
Oil Cleanliness	ISO 4406 (c)	>21/18/15	▲ 23/19/13	---	---

Customer Id: JBSOMA_USP
 Sample No.: USP242373
 Lab Number: 05929623
 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



ISO



Machine Id
KILL HPU
 Component
Hydraulic System
 Fluid
HYDRAULIC ISO 46 (10 GAL)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

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	USP242373	---	---
Sample Date	Client Info	20 Aug 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	3	---	---
Chromium ppm ASTM D5185m	>20	0	---	---
Nickel ppm ASTM D5185m	>20	0	---	---
Titanium ppm ASTM D5185m		<1	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>20	0	---	---
Lead ppm ASTM D5185m	>20	0	---	---
Copper ppm ASTM D5185m	>20	1	---	---
Tin ppm ASTM D5185m	>20	0	---	---
Vanadium ppm ASTM D5185m		<1	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		0	---	---
Barium ppm ASTM D5185m		0	---	---
Molybdenum ppm ASTM D5185m		0	---	---
Manganese ppm ASTM D5185m		0	---	---
Magnesium ppm ASTM D5185m		<1	---	---
Calcium ppm ASTM D5185m		47	---	---
Phosphorus ppm ASTM D5185m		337	---	---
Zinc ppm ASTM D5185m		379	---	---
Sulfur ppm ASTM D5185m		971	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<1	---	---
Sodium ppm ASTM D5185m		19	---	---
Potassium ppm ASTM D5185m	>20	8	---	---
Water % ASTM D6304	>0.05	0.005	---	---
ppm Water ppm ASTM D6304	>500	51.0	---	---

FLUID CLEANLINESS

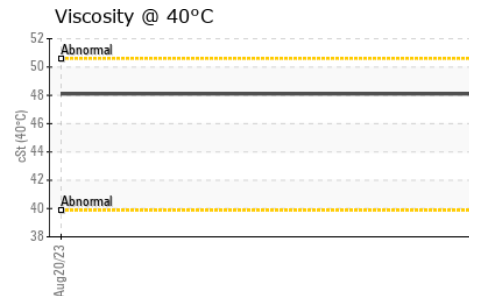
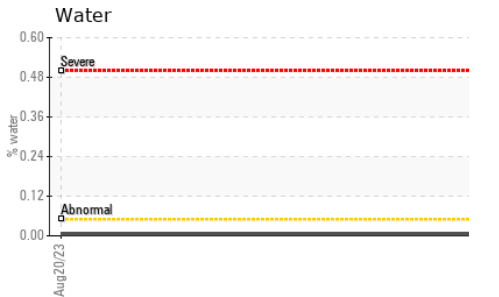
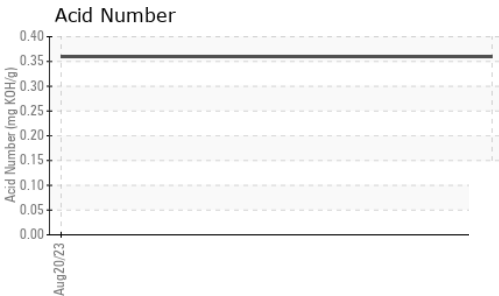
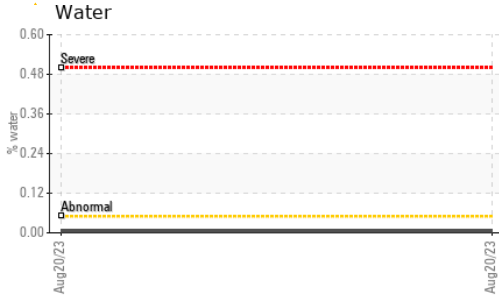
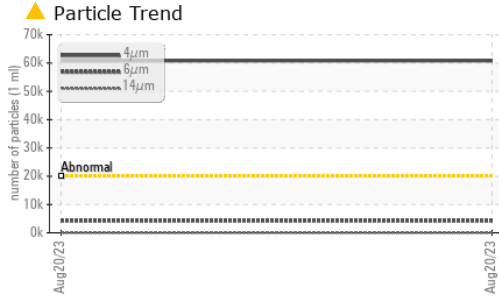
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	▲ 60790	---	---
Particles >6µm ASTM D7647	>2500	▲ 4270	---	---
Particles >14µm ASTM D7647	>320	46	---	---
Particles >21µm ASTM D7647	>80	13	---	---
Particles >38µm ASTM D7647	>20	0	---	---
Particles >71µm ASTM D7647	>4	0	---	---
Oil Cleanliness ISO 4406 (c)	>21/18/15	▲ 23/19/13	---	---

FLUID DEGRADATION

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



OIL ANALYSIS REPORT



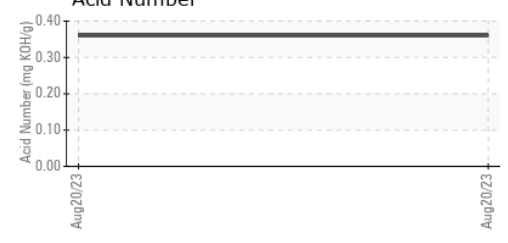
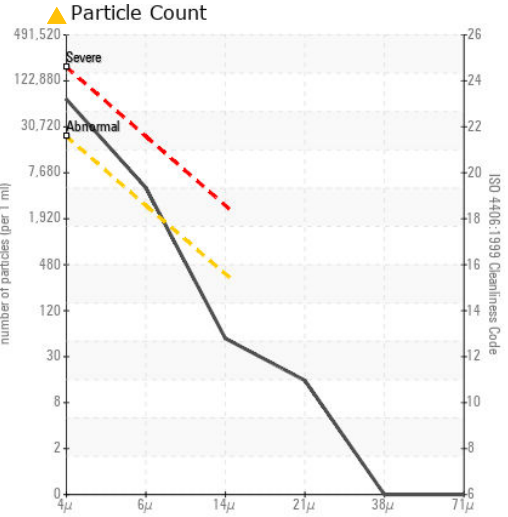
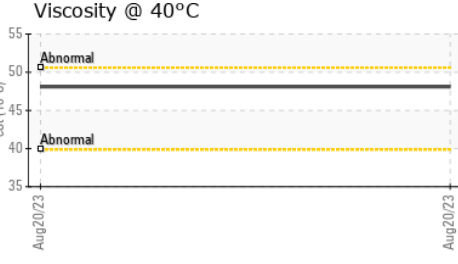
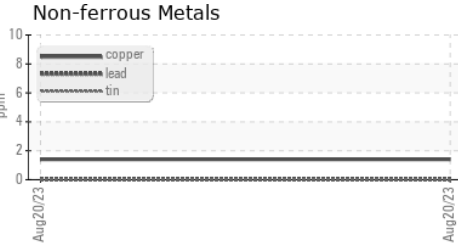
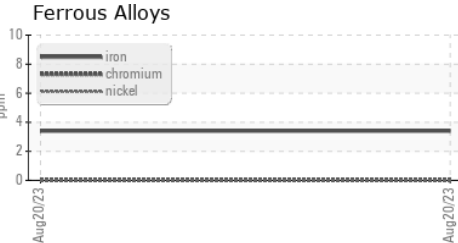
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	48.1	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP242373 **Received** : 21 Aug 2023
Lab Number : 05929623 **Diagnosed** : 22 Aug 2023
Unique Number : 10609570 **Diagnostician** : Doug Bogart
Test Package : IND 2

JBS - OMAHA
 3435 EDWARD BABE GOMEZ AVE
 OMAHA, NE
 US 68107
 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)