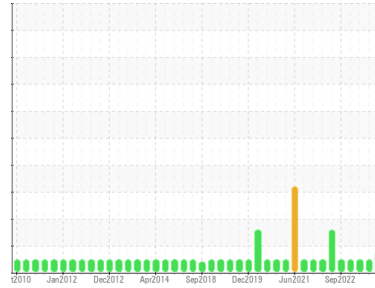




PROBLEM SUMMARY

Sample Rating Trend



ISO



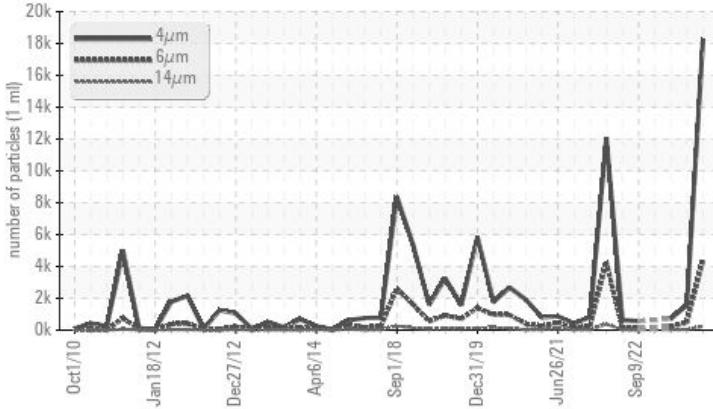
Machine Id
K-1501A Booster Compressor

Component
Tank Sealing System

Fluid
PHILLIPS 66 Diamond Class® Turbine Oil AW 32 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	NORMAL	NORMAL
Particles >6µm	ASTM D7647 >2500	▲ 4398	473	222
Oil Cleanliness	ISO 4406 (c) >--/18/15	▲ 21/19/15	18/16/12	17/15/12

Customer Id: BPEEND
 Sample No.: HLC0002694
 Lab Number: 05997356
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

10 Jun 2023 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



11 Mar 2023 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



08 Dec 2022 Diag: Jonathan Hester

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

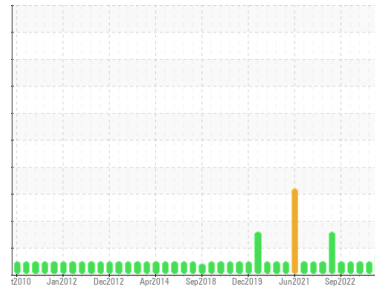
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
K-1501A Booster Compressor

Component
Tank Sealing System

Fluid
PHILLIPS 66 Diamond Class® Turbine Oil AW 32 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	HLC0002694	HLC0002681	HLC0002291
Sample Date	Client Info	12 Oct 2023	10 Jun 2023	11 Mar 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	NORMAL	NORMAL

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	4
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	0	0
Magnesium	ppm	ASTM D5185m	<1	<1
Calcium	ppm	ASTM D5185m	0	0
Phosphorus	ppm	ASTM D5185m	10	20
Zinc	ppm	ASTM D5185m	0	23
Sulfur	ppm	ASTM D5185m	0	0
			1452	1380
				1182

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	0	<1
Sodium	ppm	ASTM D5185m	0	<1
Potassium	ppm	ASTM D5185m	>20	1
			0	0

FLUID CLEANLINESS

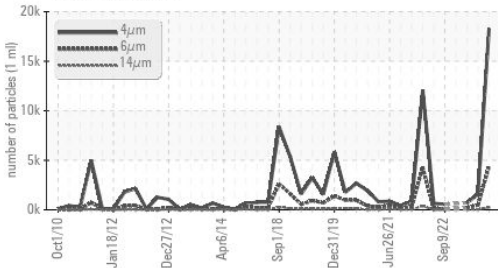
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	18285	1560	711
Particles >6µm	ASTM D7647	>2500 ▲ 4398	473	222
Particles >14µm	ASTM D7647	>320 240	38	22
Particles >21µm	ASTM D7647	>80 62	9	4
Particles >38µm	ASTM D7647	>20 2	0	0
Particles >71µm	ASTM D7647	>4 0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/15 ▲ 21/19/15	18/16/12	17/15/12

FLUID DEGRADATION

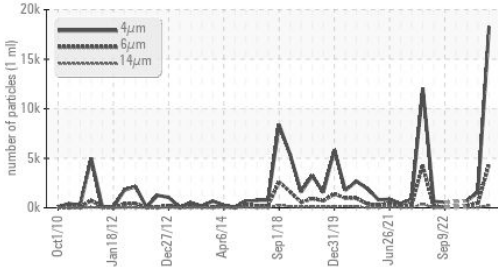
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.04	0.12
			0.10	0.12

OIL ANALYSIS REPORT

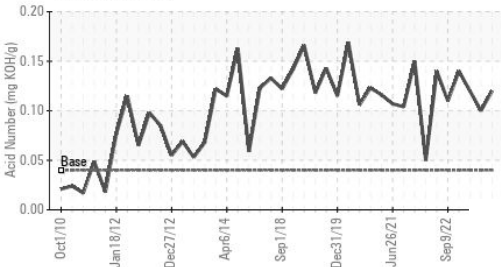
▲ Particle Trend



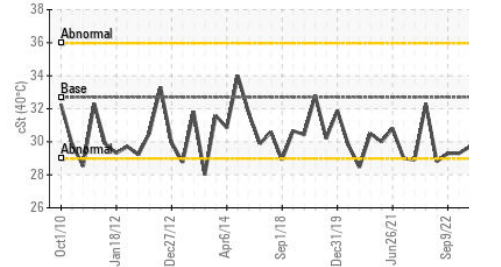
▲ Particle Trend



Acid Number



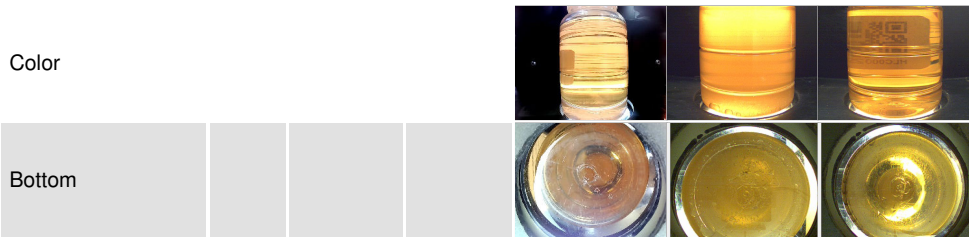
Viscosity @ 40°C



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

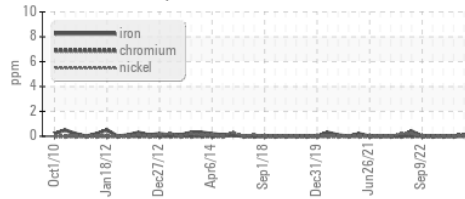
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.7	31.1	30.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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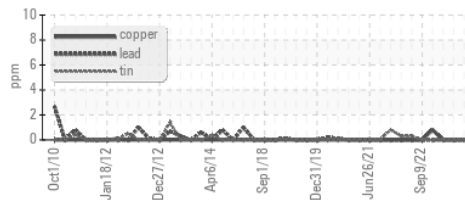


GRAPHS

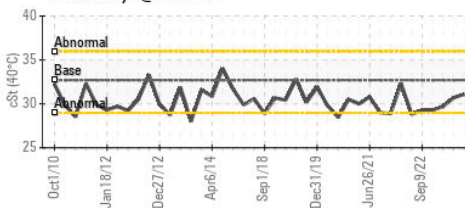
Ferrous Alloys



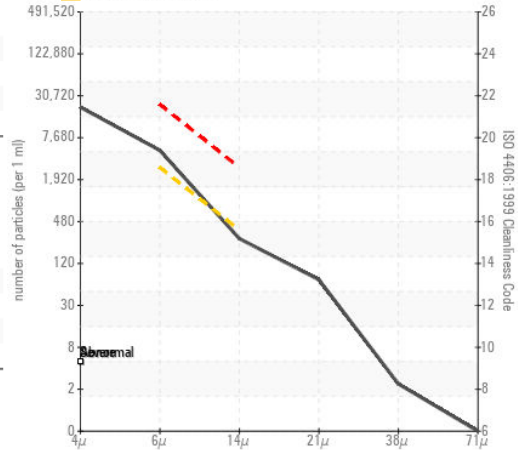
Non-ferrous Metals



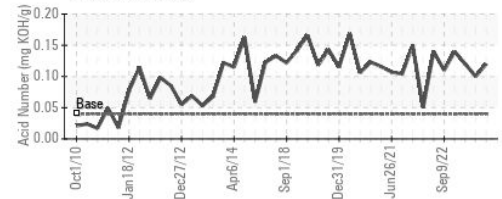
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HLC0002694 **Received** : 02 Nov 2023
Lab Number : 05997356 **Diagnosed** : 05 Nov 2023
Unique Number : 10725716 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: PrtCount)

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 604 WAREHOUSE ENDICOTT
 PRUDHOE BAY, AK
 US 99734
 Contact: SEAN LOWTHER
 slowther@hilcorp.com
 T: (907)659-6800
 F:

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)