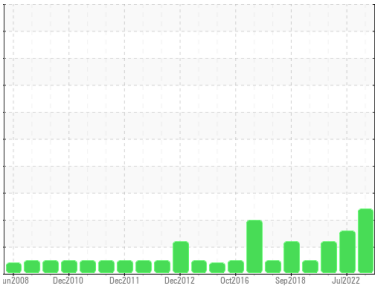
PROBLEM SUMMARY

Sample Rating Trend

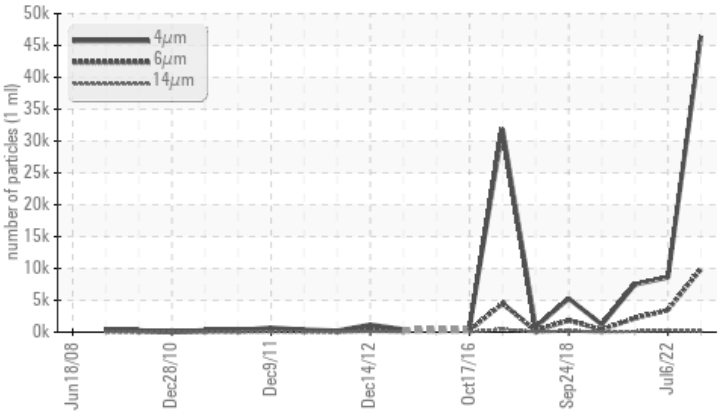


WEAR

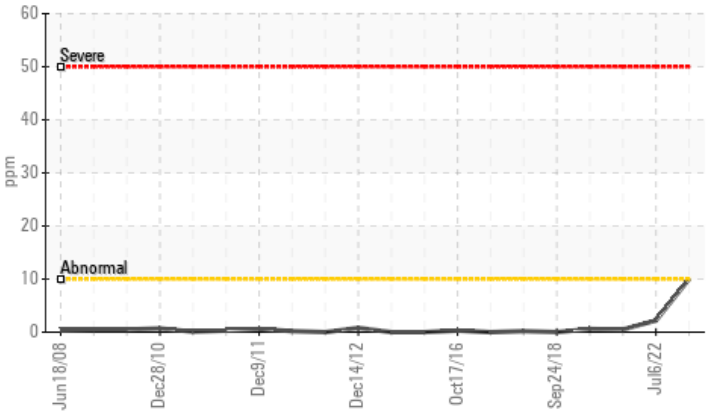
Machine Id
KAESER DSD-150 3115589 (S/N 1013)
Component
Compressor
Fluid
PHILLIPS 66 O&R 46 (--- GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



Aluminum (ppm)



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ATTENTION
Aluminum	ppm	ASTM D5185m	>10	▲ **10**	2	<1
Particles >6µm		ASTM D7647	>1300	▲ **9921**	▲ 3473	▲ 2164
Particles >14µm		ASTM D7647	>80	▲ **151**	▲ 290	▲ 112
Particles >21µm		ASTM D7647	>20	▲ **24**	▲ 49	▲ 27
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **23/20/14**	▲ 20/19/15	▲ 18/14

Customer Id: HUFGRE
Sample No.: KCPA002128
Lab Number: 05899334
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@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

06 Jul 2022 Diag: Angela Borella

ISO

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

22 Aug 2020 Diag: Doug Bogart

ISO

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

10 Jul 2019 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 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

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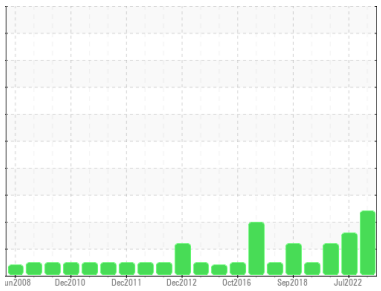
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
KAESER DSD-150 3115589 (S/N 1013)
Component
Compressor
Fluid
PHILLIPS 66 O&R 46 (--- GAL)

DIAGNOSIS

▲ Recommendation
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

▲ Wear
The aluminum level is abnormal. All other component wear rates are normal.

▲ Contamination
There is a high amount of particulates 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		**KCPA002128**	KCP11824	KCP24845
Sample Date		Client Info		**11 Jul 2023**	06 Jul 2022	22 Aug 2020
Machine Age	hrs	Client Info		**84515**	80874	76049
Oil Age	hrs	Client Info		**0**	5175	4400
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	<1	<1
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>3	**0**	<1	0
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>10	▲ **10**	2	<1
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>50	**1**	4	2
Tin	ppm	ASTM D5185m	>10	**0**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	1
Barium	ppm	ASTM D5185m		**0**	0	15
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m		**<1**	0	52
Calcium	ppm	ASTM D5185m		**0**	0	<1
Phosphorus	ppm	ASTM D5185m		**494**	40	4
Zinc	ppm	ASTM D5185m		**18**	4	3
Sulfur	ppm	ASTM D5185m		**1143**	6205	18499

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	0	2
Sodium	ppm	ASTM D5185m		**<1**	0	19
Potassium	ppm	ASTM D5185m	>20	**1**	0	9
Water	%	ASTM D6304	>0.05	**0.005**	0.003	0.030
ppm Water	ppm	ASTM D6304	>500	**59.7**	33.0	300.9

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**46434**	8597	7475
Particles >6µm		ASTM D7647	>1300	▲ **9921**	▲ 3473	▲ 2164
Particles >14µm		ASTM D7647	>80	▲ **151**	▲ 290	▲ 112
Particles >21µm		ASTM D7647	>20	▲ **24**	▲ 49	▲ 27
Particles >38µm		ASTM D7647	>4	**0**	2	2
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **23/20/14**	▲ 20/19/15	▲ 18/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.07**	0.09	0.375

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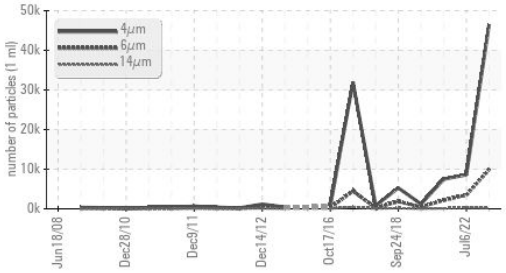
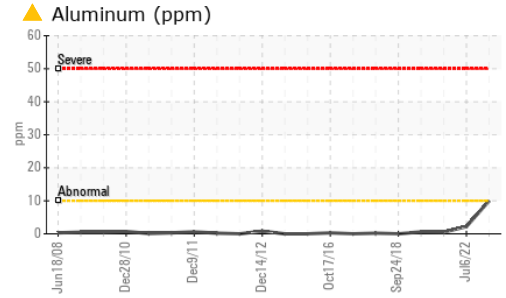
OIL ANALYSIS REPORT

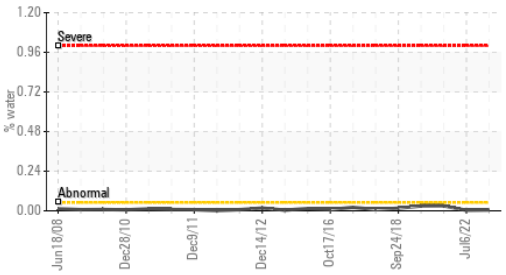
Particle Trend



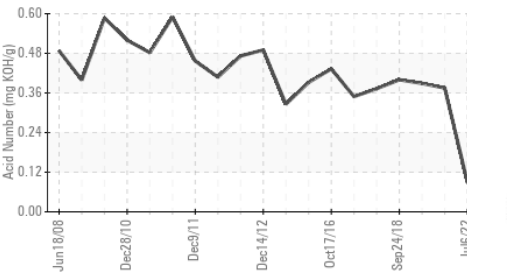
Aluminum (ppm)



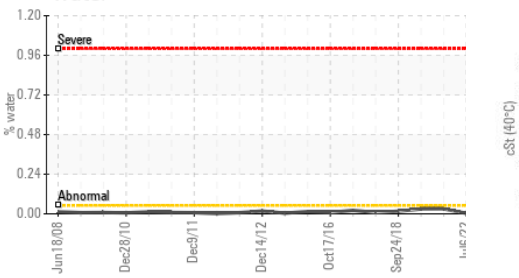
Water



Acid Number

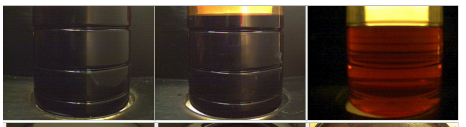


Water



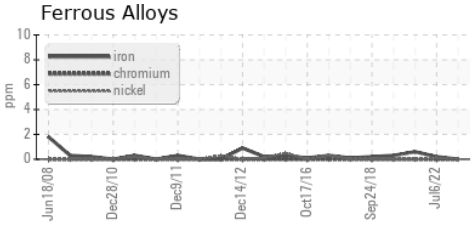
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**44.6**	47.9	45.5

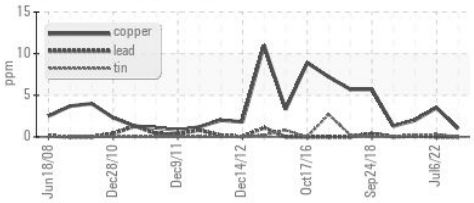
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

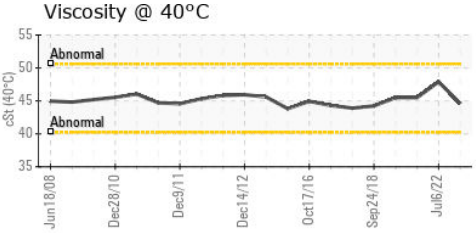
Ferrous Alloys



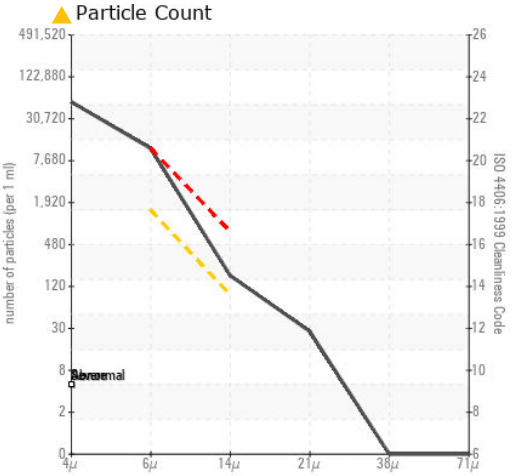
Non-ferrous Metals



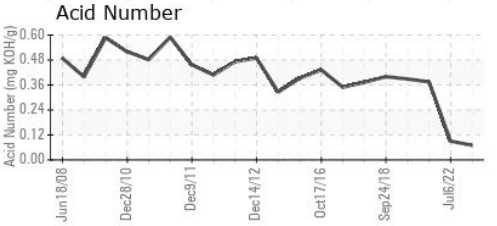
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA002128 **Received** : 14 Jul 2023
Lab Number : 05899334 **Diagnosed** : 18 Jul 2023
Unique Number : 10560690 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

HUF NORTH AMERICA
395 T ELMER COX DR
GREENEVILLE, TN
US 37743
Contact: TIM DEARSTONE
tim.dearstone@huf-group.com
T:
F: