

# **PROBLEM SUMMARY**

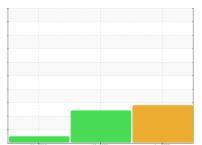
Sample Rating Trend

**WATER** 

# KAESER DSD 150 4993603 (S/N 1122)

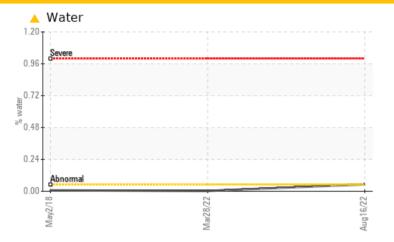
Compressor

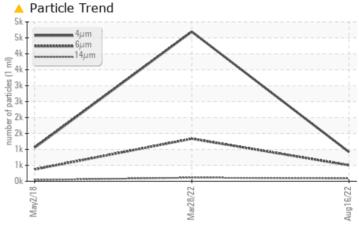
KAESER SIGMA (OEM) FG-460 (--- QTS)





# **COMPONENT CONDITION SUMMARY**





# **RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Water	%	ASTM D6304	>0.05	<b>△</b> 0.052	0.003	0.007		
ppm Water	ppm	ASTM D6304	>500	<b>520</b>	37.7	70		
Particles >14µm		ASTM D7647	>80	<b>A</b> 85	<u>113</u>	40		
Particles >21µm		ASTM D7647	>20	<b>29</b>	<u>^</u> 22	11		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>17/16/14</b>	<u>▲</u> 18/14	16/12		

Customer Id: GREWILVT Sample No.: KCP48130 Lab Number: 05627488 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 ihester@wearcheckusa.com

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

# **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

# HISTORICAL DIAGNOSIS

# 28 Mar 2022 Diag: Jonathan Hester

#### DEGRADATION



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is at the top-end of the recommended limit.



# 02 May 2018 Diag: Doug Bogart

#### NORMAL



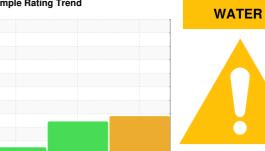
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable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





# **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER DSD 150 4993603 (S/N 1122)

Compressor

KAESER SIGMA (OEM) FG-460 (--- QTS)

# **DIAGNOSIS**

### Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

All component wear rates are normal.

# Contamination

There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil.

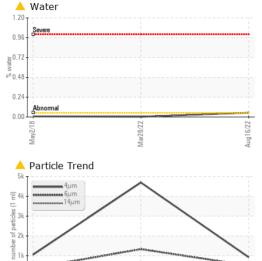
# **Fluid Condition**

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

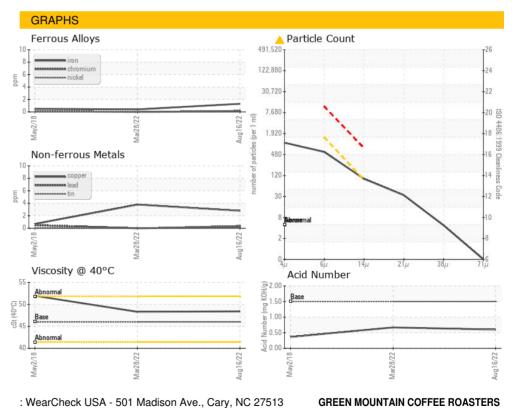
		Ma	y2018	Mar2022 Aug20	22	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP48130	KCP44315	KCP07997
Sample Date				16 Aug 2022	28 Mar 2022	02 May 2018
Machine Age	hrs			36891	34040	13574
Oil Age	hrs			445	2865	6322
Oil Changed				Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	1	<1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	8	<1	4
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>50	3	4	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	34	2
Calcium	ppm	ASTM D5185m		0	0	51
Phosphorus	ppm	ASTM D5185m	500	64	4	351
Zinc	ppm	ASTM D5185m		6	8	18
Sulfur	ppm	ASTM D5185m		729	15501	432
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	1
Sodium	ppm	ASTM D5185m		0	8	12
Potassium	ppm	ASTM D5185m	>20	<1	<1	4
Water	%	ASTM D6304	>0.05	<b>△</b> 0.052	0.003	0.007
ppm Water	ppm	ASTM D6304	>500	<b>△</b> 520	37.7	70
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		920	4694	1053
Particles >6µm		ASTM D7647	>1300	501	<b>1334</b>	372
Particles >14µm		ASTM D7647	>80	<b>A</b> 85	<u> </u>	40
Particles >21µm		ASTM D7647	>20	<u>^</u> 29	<u>^</u> 22	11
Particles >38µm		ASTM D7647	>4	4	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>17/16/14</b>	<u></u> 18/14	16/12
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	ma K∩⊔/a	VSTM D804E	1.5	0.60	A 0.67	0.365



# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history 1	history 2
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	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	48.4	48.3	51.95
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						
Bottom						6.00







Laboratory Sample No. Lab Number Unique Number : 10112009

: KCP48130 : 05627488

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 25 Aug 2022 Diagnosed

: 30 Aug 2022 Diagnostician : Jonathan Hester

687 MARSHALL AVE WILLISTON, VT USA 05495

Contact: Service Manager

**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)

T:

F: