

# **OIL ANALYSIS REPORT**

## Sample Rating Trend





Compressor

KAESER SIGMA (OEM) S-460 (--- 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.

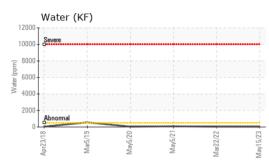
## Fluid Condition

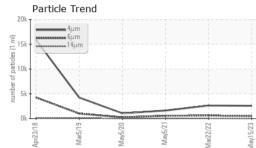
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

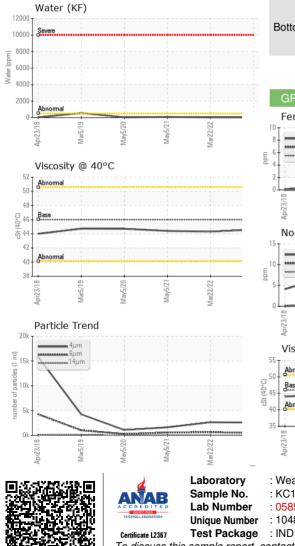
		Apr2018	,	MayŽOZ1 MarŽOZ2	May2023	
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		KC101232	KC82190	KC90426
Sample Date		Client Info		15 May 2023	22 Mar 2022	05 May 2021
Machine Age	hrs	Client Info		29138	23828	19199
Oil Age	hrs	Client Info		5310	4629	6200
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	13	7	9
Tin	ppm	ASTM D5185m		0	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпі		1	-		-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	4	0	2
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		3	6	19
Zinc	ppm	ASTM D5185m		78	89	67
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.05	0.003	0.004	0.008
ppm Water	ppm	ASTM D6304	>500	32.0	40.9	82.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2581	2628	1626
Particles >6µm		ASTM D7647	>1300	513	618	556
Particles >14µm		ASTM D7647	>80	15	46	34
Particles >21µm		ASTM D7647	>20	3	13	9
Particles >38μm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/16/11	16/13	16/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.44	0.46	0.431



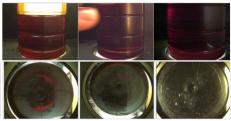
**OIL ANALYSIS REPORT** 



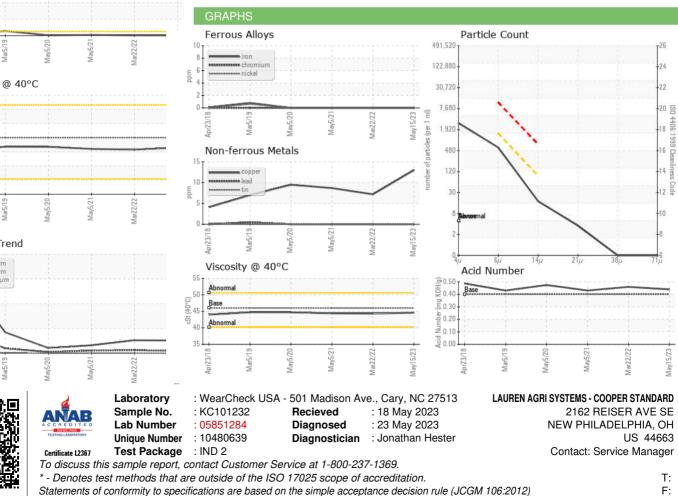




NONE NONE White Metal \*Visual NONE NONE scalar NONE NONE NONE NONE Yellow Metal scalar \*Visual Precipitate scalar \*Visual NONE NONE NONE NONE Silt scalar \*Visual NONE NONE NONE NONE NONE Debris \*Visual NONE NONE LIGHT scalar NONE Sand/Dirt scalar \*Visual NONE NONE NONE NORML Appearance NORML NORML NORML scalar \*Visua NORML NORML NORML Odor scalar \*Visual NORML **Emulsified Water** scalar \*Visual >0.05 NEG NEG NEG Free Water scalar \*Visual NEG NEG NEG FLUID PROPERTIES Visc @ 40°C cSt ASTM D445 46 44.6 44.3 44.4 SAMPLE IMAGES Color



Bottom



Contact/Location: Service Manager - LAUNEWKC