

## Machine Id **7627785 (S/N 1787)** Component **Compressor** Fluid **KAESER SIGMA (OEM) M-460 (--- GAL)**

## RECOMMENDATION

We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.



All component wear rates are normal.

## CONTAMINATION

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

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## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA005106	KCP48658	
Sample Date		Client Info		14 Aug 2023	08 Feb 2022	
Machine Age	hrs	Client Info		6710	2622	
Oil Age	hrs	Client Info		0	2622	
Filter Age	hrs	Client Info		0	2622	
Oil Changed		Client Info		N/A	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ATTENTION	
Iron	ppm	ASTM D5185m	>50	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	0	<1	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	2	2	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	LIGHT	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Ciliaan			. 05	.4	.4	
Silicon	ppm	ASTM D5185m	>25	<1 2	<1 0	
Potassium	ppm	ASTM D5185m	>20	_	÷	
Water	%	ASTM D6304	>0.05	▲ 0.210 ▲ 0100	0.016	
ppm Water	ppm	ASTM D6304	>500	A 2100	164.2	
Particles >4µm		ASTM D7647 ASTM D7647	>1300	1318 242	5334	
Particles >6µm		ASTM D7647 ASTM D7647	>80	242	▲ 134	
Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647		23 4	28	
Particles >38µm		ASTM D7647 ASTM D7647	>20	-4 0	20	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/15/12	▲ 18/14	
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	>0.05	0.2%	NEG	
Sodium	ppm	ASTM D5185m		2	14	
Boron	ppm	ASTM D5185m	0	0	<1	
Barium	ppm	ASTM D5185m	90	30	4	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	100	42	64	
Calcium	ppm	ASTM D5185m	0	<1	0	
Phosphorus	ppm	ASTM D5185m	0	2	14	
Zinc	ppm	ASTM D5185m	0	2	0	
Sulfur	ppm	ASTM D5185m	23500	19777	14965	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.33	
Vice @ 40°C	o St	ACTM D445	15	16.0	11 G	

Visc @ 40°C cSt ASTM D445 45

WEAR

CONTAMINATION

FLUID CONDITION

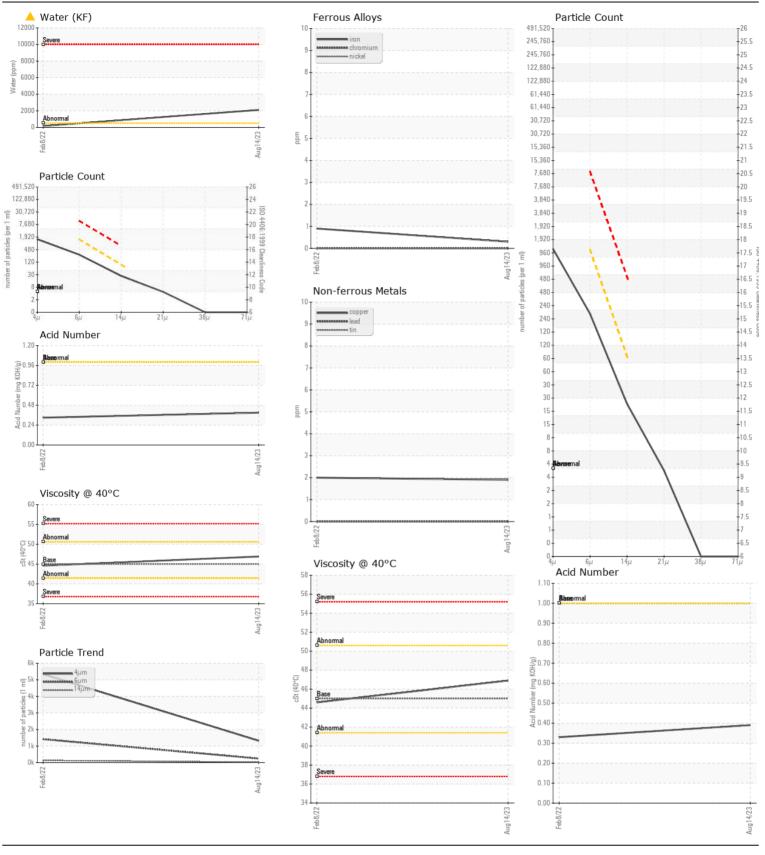
NORMAL

**ABNORMAL** 

NORMAL

44.6 ----

46.9



4	Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513			TESLA MOTOR		
ANAB	Sample No.	: KCPA005106	Recieved	: 24 Aug 2023	450 E 52ND AVE		
ISO/ICC (7025	Lab Number	: 05934370	Diagnosed	: 30 Aug 2023	DENVER, CO		
TESTING LABORATORY	Unique Number	: 10619641	Diagnostician	: Angela Borella	US 80216		
Certificate L2367	Test Package	Contact: Service Manager					
To discuss this sample report, contact Customer Service at 1-800-237-1369.							
* - Denotes te	T:						
Statements of	F:						

Contact/Location: Service Manager - TESDEN