

### **OIL ANALYSIS REPORT**

Sample Rating Trend

**WEAR** 

Machine Id

# KAESER DSD 250 4719702 (S/N 1046)

Component Compressor Fluid

**CLEAN AND CLEAR (--- GAL)** 

#### DIAGNOSIS

#### A Recommendation

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

#### A Wear

Iron ppm levels are abnormal. Aluminum ppm levels are noted.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

#### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP45080	KCP45078	KCP33411
Sample Date		Client Info		10 May 2024	17 May 2022	03 May 2021
Machine Age	hrs	Client Info		64954	52294	44357
Oil Age	hrs	Client Info		312	8125	8079
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<mark>/</mark> 78	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	6	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	13	10	4
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	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	1	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		3	<1	<1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		369	8	1
Zinc	ppm	ASTM D5185m		171	0	0
Sulfur	ppm	ASTM D5185m		2482	12736	14214
			11 11 11	-		
		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m		3	<1	<1
Water	%	ASTM D6304	>0.05	0.033	0.007	0.007
ppm Water	ppm	ASTM D6304	>500	335	75.3	74.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5100	845	637
Particles >6µm		ASTM D7647	>1300	503	211	120
Particles >14µm		ASTM D7647	>80	24	18	15
Particles >21µm		ASTM D7647	>20	4	4	6
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	20/16/12	17/15/11	14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.32	0.49	0.392

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Built for a lifetime

Severe 10000

Heime 30

12000

800 (maa)

6000 Water 4000

2000

61 Ê 51 particles (1 n 8 k 3 2

1.40

1.20

(B/HOX 1.00

Ê 0.80

I Piol

0.40

0.20

0.00

1200

1000

800

4000

2000

Water (ppm)

Acid Number

en 18/19

Water (KF)

Abnorma

Mav3/21

## **OIL ANALYSIS REPORT**

Aluminum (ppr	n)			VISUAL		method
50 - Severe				White Metal	scalar	*Visual
40-				Yellow Metal	scalar	*Visual
30 -				Precipitate	scalar	*Visual
20-				Silt	scalar	*Visual
10 - Abnormal				Debris	scalar	*Visual
0				Sand/Dirt	scalar	*Visual
Oct12/16 Sep18/19	May3/21	May17/22	May10/24	Appearance	scalar	*Visual
Sep Oct	Ma	May	May	Odor	scalar	*Visual
Water (KF)				Emulsified Water	scalar	*Visual
100 T				Free Water	scalar	*Visual
00 - Gevere				FLUID PROPER	TIES	method
00-				Visc @ 40°C	cSt	ASTM D445
00				SAMPLE IMAGE	S	method
00 -				SAMPLE IMAGE	S	method
00 Abnormal	ay3/21 -	22/11/	10/24	SAMPLE IMAGE	S	method
00 - Abnormal	May3/21	May17/22 -	May10/24		S	method
Abnormal 91/71100 91/7100 91/7000 91/70000	May3/21 -	May17/22 -	May10/24		S	method
Abnormal Abnormal B B B C C C C C C C C C C C C C	Mar,3/21 -	May17/22 -	May10/24		S	method
Abnomal	May3/21-		May10/24	Color	S	method
00 <b>Δbnormal</b> 917,110 <b>Particle Trend</b> 6k 5k 4k 4k	Ma/3/21-	May17/22 -	May10/24	Color	S	method
Abnormal General   0 977 μ 88 μ   Particle Trend 4μm   5k 9μm 14μm   4k 14μm 14μm	Maj321-	May17/22	May10/24	Color	S	method
Abnormal   Δ	Mak321.	May17/22 -	May10/24	Color Bottom	S	method
Abnormal 6   9 6   9 8   Particle Trend   6k 4μm   4k 14μm   3k 14μm	May3/21-	May17/22 -	May10/24	Color Bottom GRAPHS	S	method
Abnormal   Δ	Mar.3/21	May17/22	May10/24 May10/24	Color Bottom	S	method

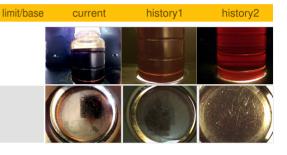
Mav17/22

Mav17/22

Laboratory

Sample No.

Test Package : IND 2 (Additional Tests: KF, PrtCount)



history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

45.2

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

NEG

NEG

46.6

Particle Count 80 491 520 60 122,880 튭 40 30,720 20 7,680 20 28 May10/24 -Sep 18/15 Mav3/2 //T//22 4406 Oct12/ (per 1 1,920 19999 Non-ferrous Metals 480 6 20 5 120 1 2 Code 튭 10 30 0 0ct12/16 /av17/22 Mav3/21 /av10/24 Sen1 Viscosity @ 40°C Acid Number 60 (B/H03 Bull 1.00 55 (0-0<del>1</del>) tso Ê 0.5 Abr 40 0.00 PC 35 May10/24 -Mav3/21 May17/22 Sep18/19 Sep 18/19 May3/21 May17/22 10/24 0ct12/16 0ct12/16 : WearCheck USA - 501 Madison Ave., Cary, NC 27513 JEFFERSON INDUSTRIES : KCP45080 Received : 07 Jun 2024 6670 ST ROUTE 29 Lab Number : 06203403 Tested : 11 Jun 2024 WEST JEFFERSON, OH : 11 Jun 2024 - Angela Borella Unique Number : 11070864 Diagnosed US 43162

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

>0.05

current

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

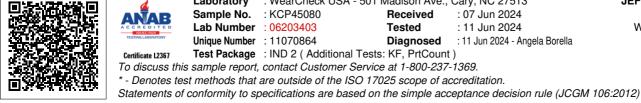
NORML

current

NEG

NEG

46.9



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Contact/Location: ? ? - JEFWES Page 2 of 2

Contact:

T:

F: