

# **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Machine Id KAESER DSD 250 8156150 - ICE INDUSTRIES DEERFIELD (S/N 1159) Component Compressor

Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

## Fluid Condition

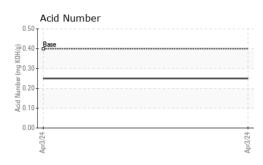
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

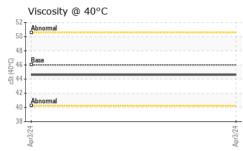
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0907602		
Sample Date		Client Info		03 Apr 2024		
Machine Age	hrs	Client Info		15334		
Oil Age	hrs	Client Info		7127		
Oil Changed	1110	Client Info		Changed		
Sample Status				NORMAL		
				-		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	7		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	90	0		
Calcium	ppm	ASTM D5185m	2	0		
Phosphorus	ppm	ASTM D5185m		2		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		14506		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.25		



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VISUAL





Visc @ 40°C cSt ASTM D445 46 44.6 SAMPLE IMAGES method limit/base current history1 history1 history1 contractions in a contraction of the								
Precipitate scalar Visual NONE NONE								
Sitt scalar Visual NONE NONE								
Debris scalar 'Visual NONE NONE Sand/Dirt scalar 'Visual NONE NONE Sand/Dirt scalar 'Visual NORML NORML Emusified Water scalar 'Visual NORML NORML Emusified Water scalar 'Visual NORML NORML Tree Water scalar 'Visual NORML NORML NEG FLUID PROPERTIES method Imit/base current history1 hist Visc @ 40°C c.St ASTM D445 46 44.6								
Sand/Dirt scalar *Visual NONE NONE								
Appearance scalar 'Visual NORML NORML Godor scalar 'Visual NORML NORML Free Water scalar 'Visual NORML NORML Free Water scalar 'Visual NORML NORML Free Water scalar 'Visual NORML NORML NEG SAMPLE IMAGES method imit/base current history1 hist Visc @ 40°C cSt ASTM D445 46 44.6 SAMPLE IMAGES method imit/base current history1 hist Color no image no im Bottom Image no im GRAPHS Ferrous Alloys 		Debris	scalar	*Visual		NONE		
Codor scalar Visual Notifue Notifue		Sand/Dirt	scalar	*Visual	NONE	NONE		
Codor scalar Visual Notifue Notifue	or3/24	Appearance			NORML	NORML		
Free Water scalar 'Visual NEG FLUID PROPERTIES method limit/base current history1 hist Visc @ 40°C cSt ASTM D445 46 44.5 SAMPLE IMAGES method limit/base current history1 hist Color I I I I I I I I I I I I I I I I I I I	AI	Odor	scalar	*Visual	NORML	NORML		
FLUID PROPERTIES   method   limit/base   current   history1   hist     Visc @ 40°C   cSt   ASTM D445   46   44.6       SAMPLE IMAGES   method   limit/base   current   history1   hist     Gold   Color   limit/base   current   history1   hist     Bottom   limit/base   no image   no im     GRAPHS   recommendation   no image   no im     Mon-ferrous Metals		Emulsified Water	scalar	*Visual	>0.05	NEG		
Visc @ 40°C cSt ASTM D445 46 44.6 SAMPLE IMAGES method imit/base current history1 hist Color no image no im Bottom CRAPHS Ferrous Alloys 	· · · · · · · · · · · · · · · · · · ·	Free Water	scalar	*Visual		NEG		
Visc @ 40°C cSt ASTM D445 46 44.6 SAMPLE IMAGES method imit/base current history1 hist Color no image no im Bottom CRAPHS Ferrous Alloys 		FI UID PROPER	TIFS	method	limit/base	current	historv1	history2
Color no image no im Bottom 0 image no im GRAPHS Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C								
Color no image no im Bottom 0 image no im GRAPHS Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C		SAMPLE IMAGE	S	method	limit/base	current	historv1	history2
Bottom no image no im CRAPHS Ferrous Allays 0 0 0 0 0 0 0 0 0 0 0 0 0			0					
GRAPHS Ferrous Alloys	Apr3/24	Color					no image	no image
Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C Current and a set of the se		Bottom					no image	no image
Viscosity @ 40°C Acid Number biomal		Non-ferrous Meta	ls		Apr3/24			
Viscosity @ 40°C Acid Number Acid Number Acid Number Base Abnomal Abnomal Abnomal Abnomal		8 6 4 2			4pr3/24			
50 Abnormal Base   60 445 Base   61 40   35 40		Viscosity @ 40°C				Acid Number		
		Abnormal			(B)H( 0.50	Base		
		30 -			Ê 0 30.			
		et 45 -			a 0.20			
					P 0.10			
Apr3/24 Apr3/24						Ц		
Ar Ar		or3/24			or3/24	or3/24		
Laboratory: WearCheck USA - 501 Madison Ave., Cary, NC 27513ELEVATED INDUSTRIAL SOLUTIONSample No.: WC0907602Received: 15 Apr 2024120 LAWTONLab Number: 06149556Tested: 16 Apr 2024MONRO	-	Viscosity @ 40°C		<b>red</b> : 15	(0,50) HO 0.40. Bul 0.30. HO 2.00. HO 2	Base 	120 I	LAWTON

\* - 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)

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Contact/Location: ROBIN PRICHARD - COMMONOH

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