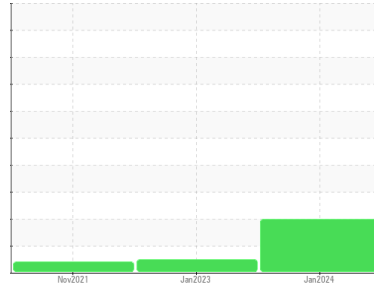




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
AIR CENTER 3313205 (S/N 1340)

Component
Compressor

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KCPA006588	KCP45921	KCP43538
Sample Date	Client Info		12 Jan 2024	10 Jan 2023	12 Nov 2021
Machine Age	hrs	Client Info	35709	34567	32751
Oil Age	hrs	Client Info	0	2000	6500
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	21	<1	<1
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m	<1	0	1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >25	2	0	<1
Lead	ppm	ASTM D5185m >25	2	0	0
Copper	ppm	ASTM D5185m >50	6	11	3
Tin	ppm	ASTM D5185m >15	<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	0	20
Barium	ppm	ASTM D5185m 90	0	1	<1
Molybdenum	ppm	ASTM D5185m 0	<1	0	<1
Manganese	ppm	ASTM D5185m	2	0	0
Magnesium	ppm	ASTM D5185m 100	2	2	7
Calcium	ppm	ASTM D5185m 0	<1	0	0
Phosphorus	ppm	ASTM D5185m 0	160	5	2
Zinc	ppm	ASTM D5185m 0	102	2	25
Sulfur	ppm	ASTM D5185m 23500	3946	19699	22661

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	<1	1
Sodium	ppm	ASTM D5185m	3	0	2
Potassium	ppm	ASTM D5185m >20	4	<1	0
Water	%	ASTM D6304 >0.1	0.007	0.010	0.010
ppm Water	ppm	ASTM D6304 >1000	77	101.2	106.5

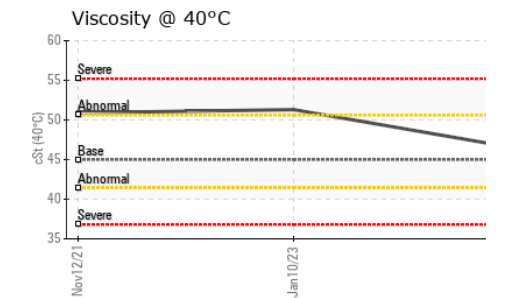
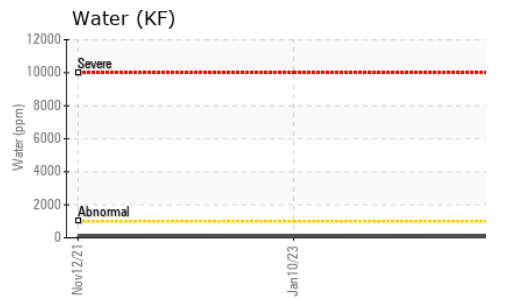
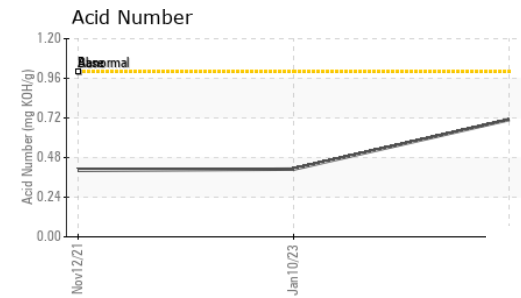
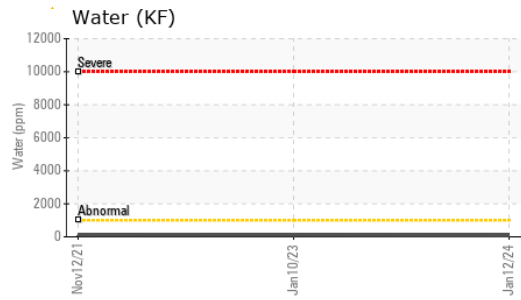
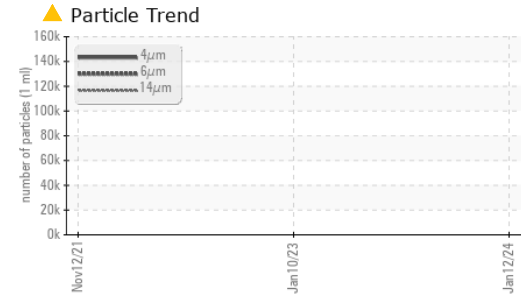
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		153013	---	---
Particles >6µm	ASTM D7647	>1300	▲ 96319	---	---
Particles >14µm	ASTM D7647	>80	▲ 15804	---	---
Particles >21µm	ASTM D7647	>20	▲ 3801	---	---
Particles >38µm	ASTM D7647	>4	▲ 73	---	---
Particles >71µm	ASTM D7647	>3	2	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/24/21	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.71	0.41	0.403

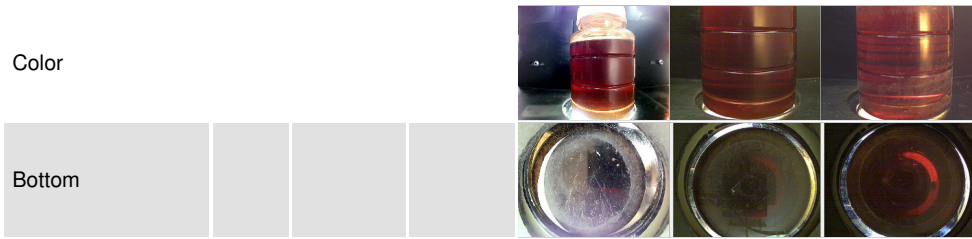
OIL ANALYSIS REPORT



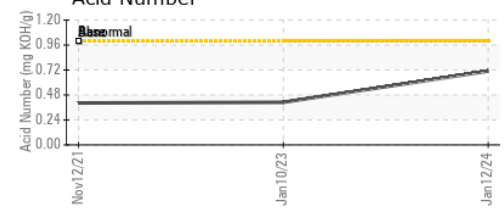
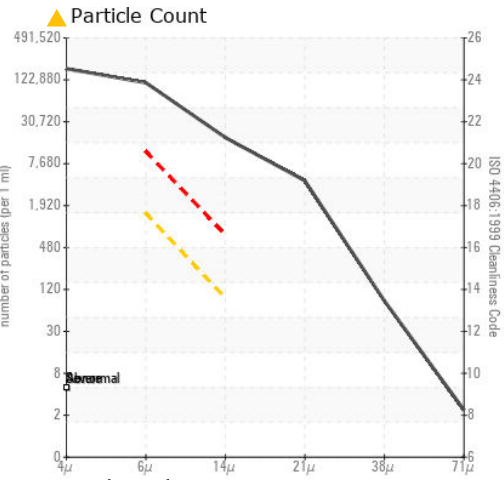
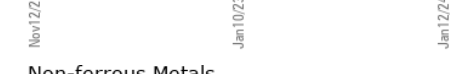
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	46.6	51.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA006588 **Received** : 01 Feb 2024
Lab Number : 06077714 **Diagnosed** : 04 Feb 2024
Unique Number : 10859805 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

COLD VALLEY FARMS LLC
 48405 LONOAK RD
 KING CITY, CA
 US 93930
 Contact: R GARCIA
 RGARCIA@COLDVALLEYFARMS.COM

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)