



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**SAP-11113962 Seaboard Energy**  
 Machine Id  
**KAISHAN K1852107801U**  
 Component  
**Compressor**  
 Fluid  
**KAISHAN (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>APC0000753</b>	APC0000752	APC0000758
Sample Date		Client Info		<b>29 May 2024</b>	30 Jan 2024	24 Oct 2023
Machine Age	hrs	Client Info		<b>19186</b>	16344	14030
Oil Age	hrs	Client Info		<b>2842</b>	8500	6000
Filter Age	hrs	Client Info		<b>2842</b>	1000	3000
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>0</b>	6	11
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	11
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>0</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>0</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

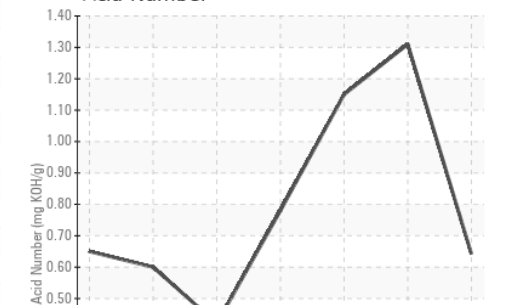
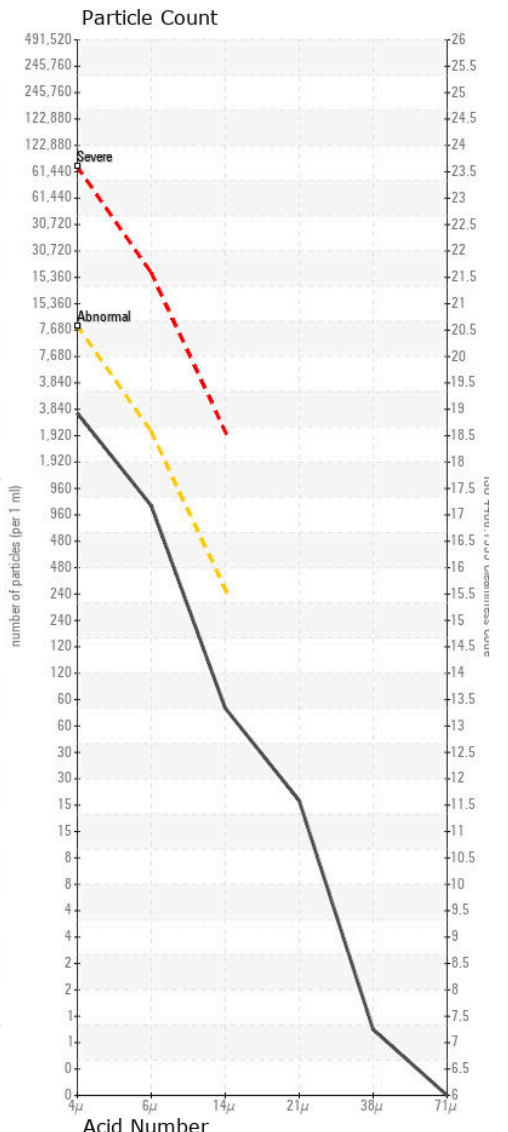
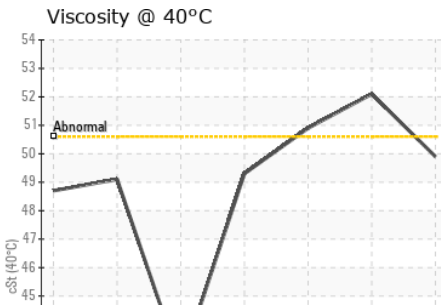
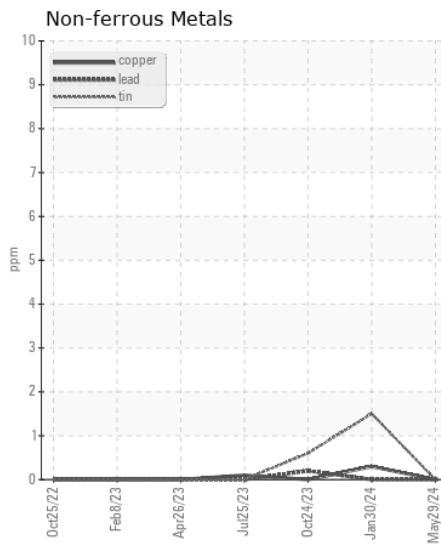
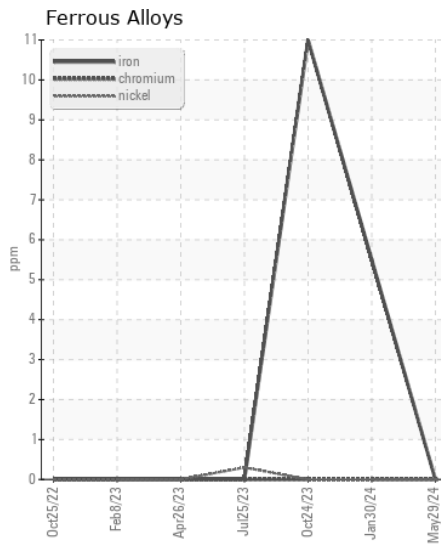
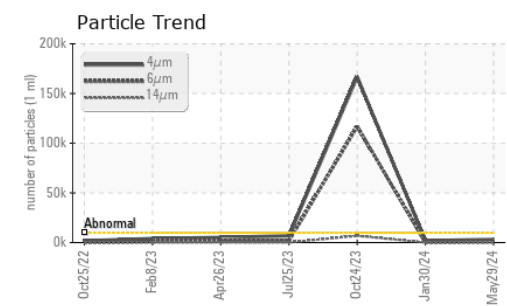
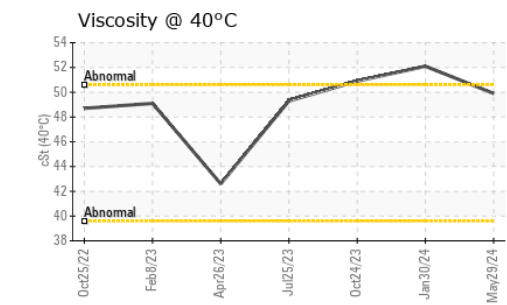
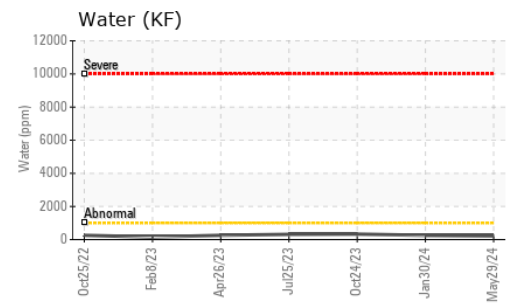
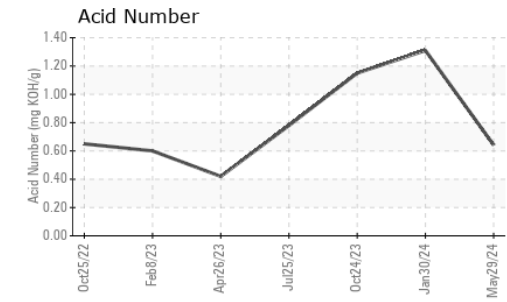
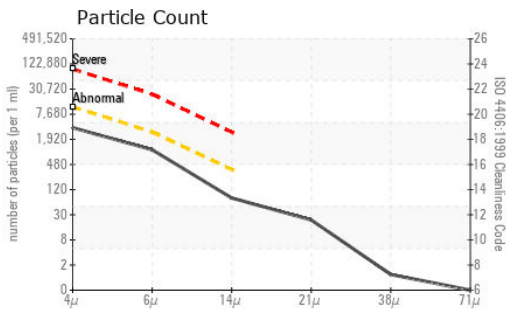
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	35
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	4
Water	%	ASTM D6304	>0.1	<b>0.022</b>	0.025	0.033
ppm Water	ppm	ASTM D6304	>1000	<b>223</b>	254	330.5
Particles >4µm		ASTM D7647	>10000	<b>3185</b>	1964	166719
Particles >6µm		ASTM D7647	>2500	<b>949</b>	255	116840
Particles >14µm		ASTM D7647	>320	<b>67</b>	21	6746
Particles >21µm		ASTM D7647	>80	<b>20</b>	7	393
Particles >38µm		ASTM D7647	>20	<b>1</b>	0	2
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>19/17/13</b>	18/15/12	25/24/20
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>1</b>	0	4
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	2
Calcium	ppm	ASTM D5185m		<b>0</b>	0	15
Phosphorus	ppm	ASTM D5185m		<b>10</b>	10	3
Zinc	ppm	ASTM D5185m		<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>0</b>	22	43
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.642</b>	1.31	1.15
Visc @ 40°C	cSt	ASTM D445		<b>49.9</b>	52.1	50.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : APC0000753

**Lab Number** : 06236857

**Unique Number** : 11125691

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

**Received** : 15 Jul 2024

**Tested** : 17 Jul 2024

**Diagnosed** : 17 Jul 2024 - Doug Bogart

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)

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