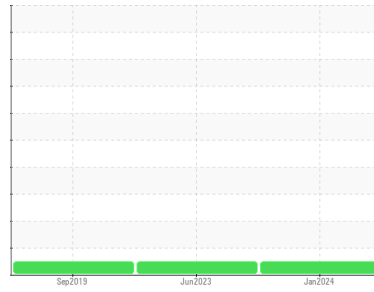


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
KINGAIR 200 (B6)

Component
Hydraulic System

Fluid
TULCO LUBSOIL SYNTHETIC HYDRAULIC 15 (220 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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			TO50002049	TO5003265	TO5010696
Sample Date	Client Info			23 Jan 2024	29 Jun 2023	10 Sep 2019
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	2	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	0	<1	0
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	2	<1
Calcium	ppm	ASTM D5185m		6	4	<1
Phosphorus	ppm	ASTM D5185m	50	103	70	73
Zinc	ppm	ASTM D5185m	4	50	8	3
Sulfur	ppm	ASTM D5185m	80	763	376	250

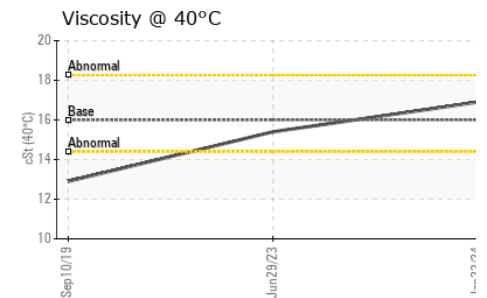
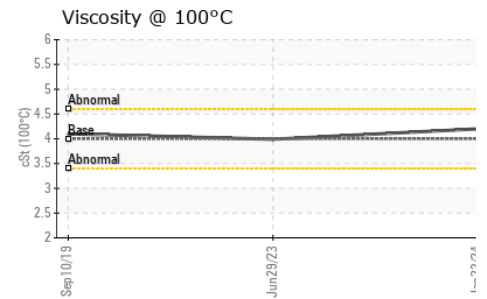
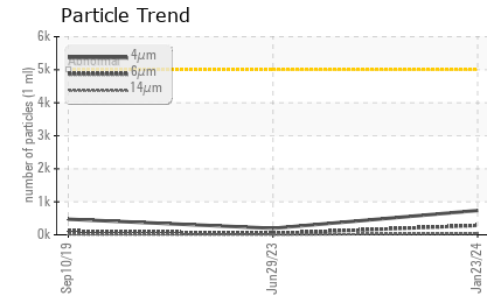
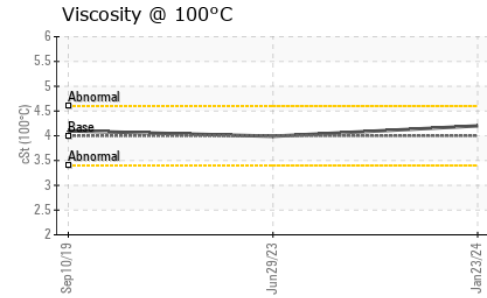
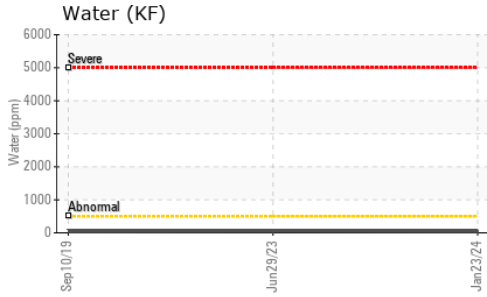
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		4	4	3
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.004	0.005	0.004
ppm Water	ppm	ASTM D6304	>500	41	52.5	41.9

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	737	197	473
Particles >6µm		ASTM D7647	>1300	285	39	110
Particles >14µm		ASTM D7647	>160	36	5	10
Particles >21µm		ASTM D7647	>40	11	1	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	15/12/10	16/14/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
-------------------	--	--------	------------	---------	----------	----------

Acid Number (AN) mg KOH/g ASTM D8045 0.11 **0.28** 0.23 0.224

OIL ANALYSIS REPORT

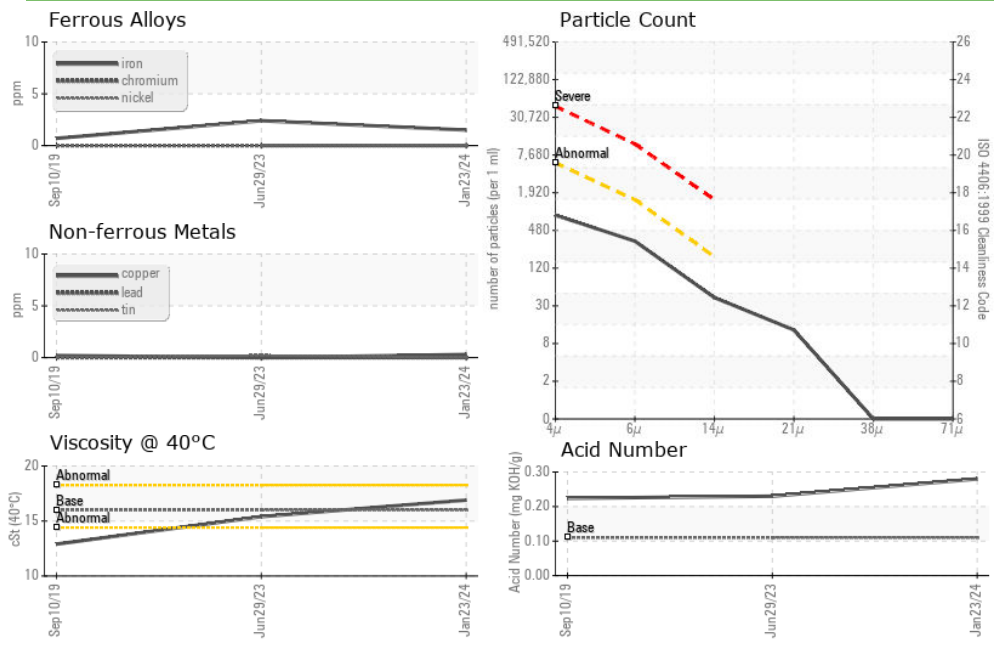


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	16	16.9	15.4	12.9
Visc @ 100°C	cSt	ASTM D445	4	4.2	3.99	4.1
Viscosity Index (VI)	Scale	ASTM D2270	156	161	166	255

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002049 **Received** : 30 May 2024
Lab Number : 06195898 **Tested** : 04 Jun 2024
Unique Number : 11058021 **Diagnosed** : 04 Jun 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

CAE SIMUFLITE
 2929 WEST AIRFIELD DR, DFW AIRPORT
 DALLAS, TX
 US 75261
 Contact: IVO GRAEVE
 ivo.graev@cae.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)