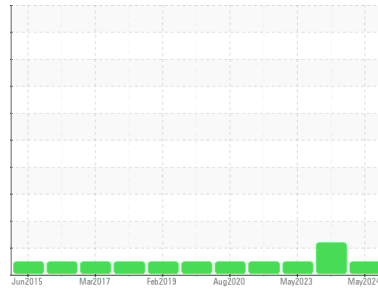


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
South Wing
 Machine Id
CAE Citation Excel
 Component
Hydraulic System
 Fluid
TULCO LUBSOIL LUBVIS 746 (400 GAL)

DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

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. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			TO50002052	TO50002065	TO5003282
Sample Date	Client Info			02 May 2024	06 Dec 2023	18 May 2023
Machine Age	Client Info	yrs		0	0	0
Oil Age	Client Info	yrs		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
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	<1
Lead	ppm	ASTM D5185m	>20	6	7	8
Copper	ppm	ASTM D5185m	>20	3	2	4
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m		---	---	---
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

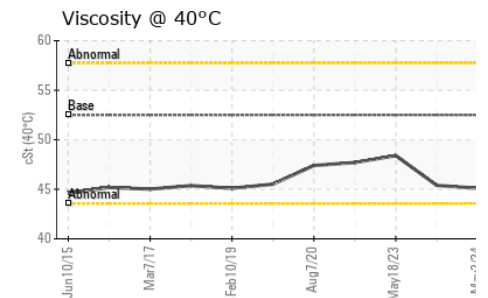
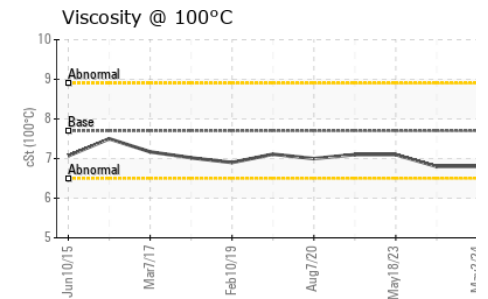
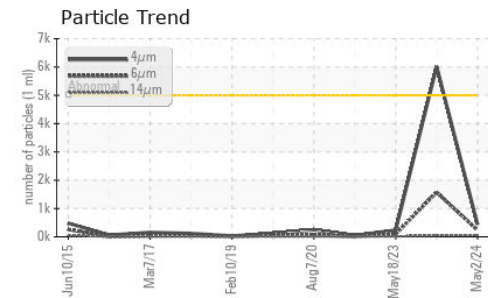
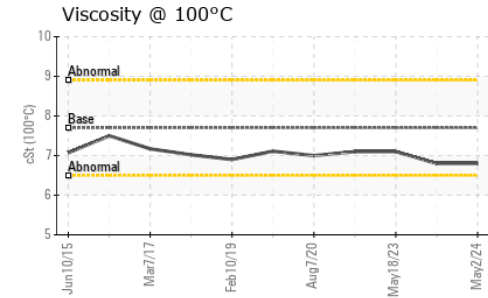
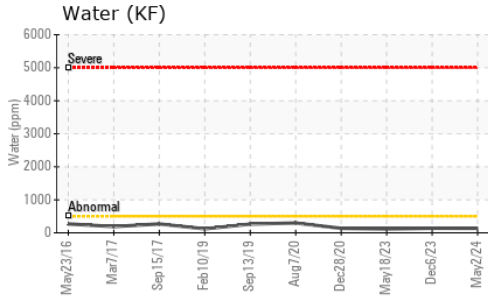
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		16	20	88
Calcium	ppm	ASTM D5185m		16	9	68
Phosphorus	ppm	ASTM D5185m	240	283	277	406
Zinc	ppm	ASTM D5185m		208	200	405
Sulfur	ppm	ASTM D5185m	7560	3922	3249	3023

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	2
Sodium	ppm	ASTM D5185m		4	4	3
Potassium	ppm	ASTM D5185m	>20	0	1	0
Water	%	ASTM D6304	>0.05	0.013	0.013	0.011
ppm Water	ppm	ASTM D6304	>500	135	138	115.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	439	6014	240
Particles >6µm		ASTM D7647	>1300	232	1572	94
Particles >14µm		ASTM D7647	>160	57	45	13
Particles >21µm		ASTM D7647	>40	15	8	3
Particles >38µm		ASTM D7647	>10	2	0	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/13	20/18/13	15/14/11

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.52	0.52	0.44

OIL ANALYSIS REPORT

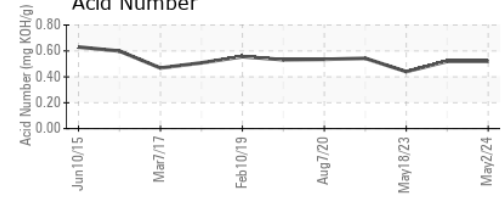
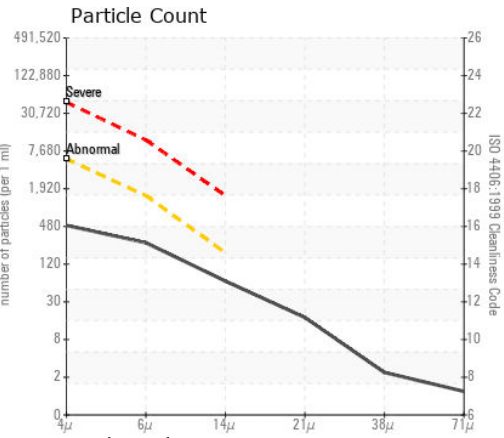
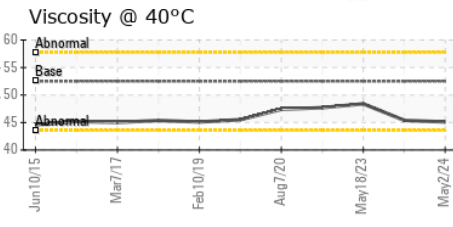
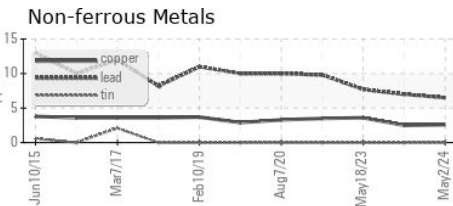
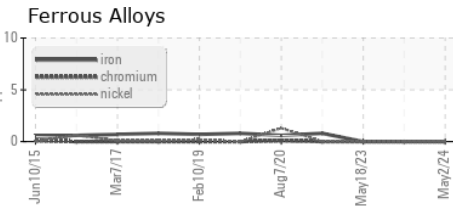


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	52.5	45.1	45.4
Visc @ 100°C	cSt	ASTM D445	7.7	6.8	7.1
Viscosity Index (VI)	Scale	ASTM D2270	111	104	103

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002052
Lab Number : 06195899
Unique Number : 11058022
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

CAE SIMUFLITE
 2929 WEST AIRFIELD DR, DFW AIRPORT
 DALLAS, TX
 US 75261

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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 scott.boyd@cae.com

T: (817)812-6165

F: x: