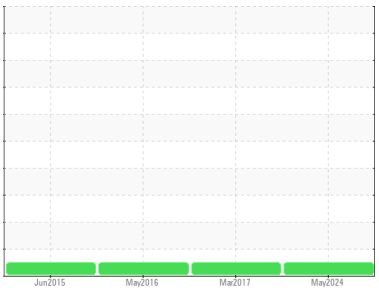
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
South Wing
Machine Id
CAE CL604 BBAD
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
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		**TO50002055**	TO5307766	TO5005958
Sample Date		Client Info		**02 May 2024**	07 Mar 2017	23 May 2016
Machine Age	yrs	Client Info		**0**	0	0
Oil Age	yrs	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	**0**	<1	<1
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	<1	<1
Lead	ppm	ASTM D5185m	>20	**0**	14	12
Copper	ppm	ASTM D5185m	>20	**3**	5	5
Tin	ppm	ASTM D5185m	>20	**0**	<1	0
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**0**	84	96
Calcium	ppm	ASTM D5185m		**11**	95	106
Phosphorus	ppm	ASTM D5185m	240	**167**	496	559
Zinc	ppm	ASTM D5185m		**8**	560	610
Sulfur	ppm	ASTM D5185m	7560	**6721**	2194	2296

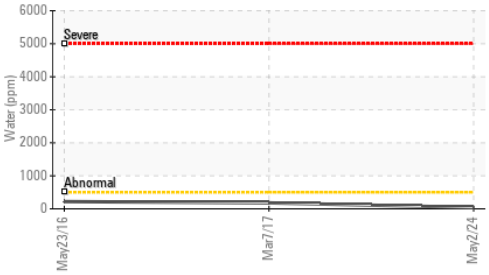
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**0**	1	1
Sodium	ppm	ASTM D5185m		**8**	3	3
Potassium	ppm	ASTM D5185m	>20	**0**	2	4
Water	%	ASTM D6304	>0.05	**0.003**	0.018	0.022
ppm Water	ppm	ASTM D6304	>500	**40**	180	220

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**571**	301	177
Particles >6µm		ASTM D7647	>1300	**234**	78	96
Particles >14µm		ASTM D7647	>160	**34**	9	16
Particles >21µm		ASTM D7647	>40	**9**	5	5
Particles >38µm		ASTM D7647	>10	**0**	3	0
Particles >71µm		ASTM D7647	>3	**0**	3	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**16/15/12**	15/13/10	15/14/11

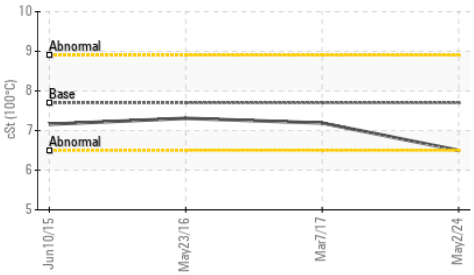
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.24**	0.605	0.694

OIL ANALYSIS REPORT

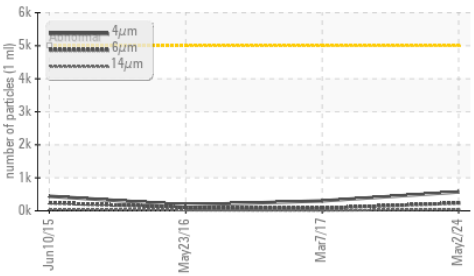
Water (KF)



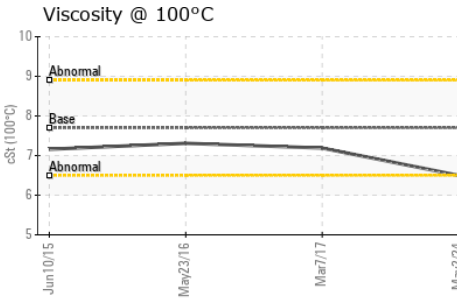
Viscosity @ 100°C



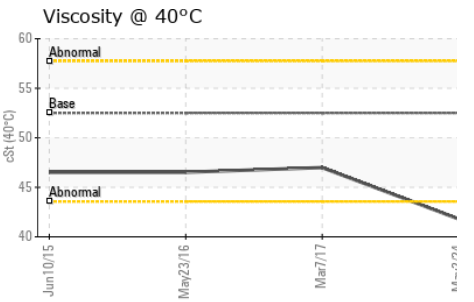
Particle Trend



Viscosity @ 100°C



Viscosity @ 40°C



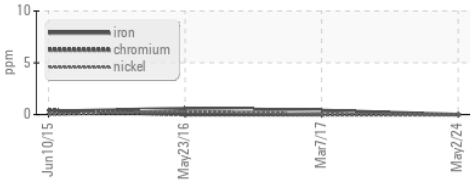
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	52.5	**41.8**	46.99	46.52
Visc @ 100°C	cSt	ASTM D445	7.7	**6.5**	7.19	7.31
Viscosity Index (VI)	Scale	ASTM D2270	111	**105**	112	118

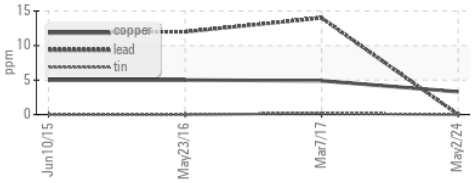
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

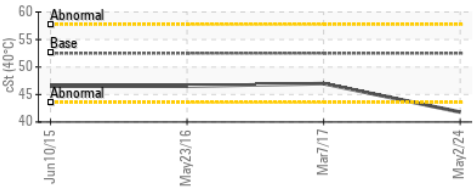
Ferrous Alloys



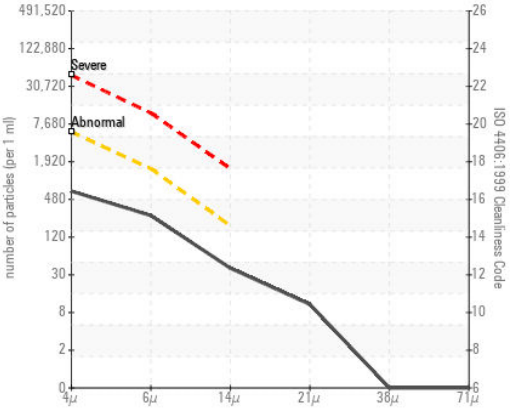
Non-ferrous Metals



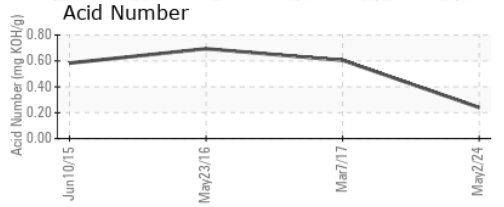
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002055
Lab Number : 06195896
Unique Number : 11058019
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

Received : 30 May 2024
Tested : 04 Jun 2024
Diagnosed : 04 Jun 2024 - Jonathan Hester

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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