

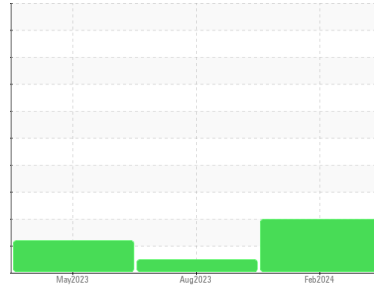
OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area
COMPRESSOR STATIONS/ROSS DRAW AREA
 Machine Id
RIPPLE (S/N LE11602)

Component
Compressor
 Fluid
TULCO LUBSOIL LPG WS 150 (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: Vru PM'd two weeks ago)

Wear

All component wear rates are normal.

Contamination

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

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	TO60002087	TO60001243	TO60000801
Sample Date	Client Info	21 Feb 2024	07 Aug 2023	05 May 2023
Machine Age	hrs	6129	6129	3941
Oil Age	hrs	6129	3941	2160
Oil Changed	Client Info	Not Chngd	Not Chngd	N/A
Sample Status		ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	0	<1	<1
Chromium	ppm	ASTM D5185m >10	<1	0	<1
Nickel	ppm	ASTM D5185m	0	0	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	<1	0
Lead	ppm	ASTM D5185m >25	0	0	<1
Copper	ppm	ASTM D5185m >50	0	<1	0
Tin	ppm	ASTM D5185m >15	0	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	0	<1	0
Barium	ppm	ASTM D5185m 0	8	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m 0	<1	<1	<1
Calcium	ppm	ASTM D5185m 0	<1	0	<1
Phosphorus	ppm	ASTM D5185m 0	24	2	3
Zinc	ppm	ASTM D5185m 0	0	0	0
Sulfur	ppm	ASTM D5185m 0	33	131	81

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<1	1	2
Sodium	ppm	ASTM D5185m	1	0	3
Potassium	ppm	ASTM D5185m >20	2	<1	<1
Water	%	ASTM D6304 >2.26	0.422	0.869	0.628
ppm Water	ppm	ASTM D6304 >22600	4225	8699.2	6280

FLUID CLEANLINESS

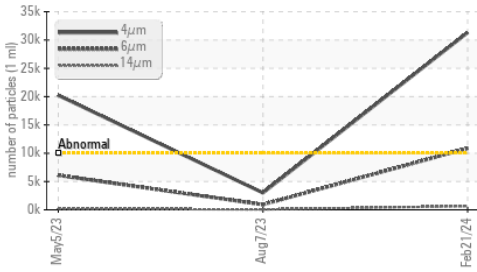
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 31311	2999	▲ 20226
Particles >6µm	ASTM D7647 >1300	▲ 10863	918	▲ 6090
Particles >14µm	ASTM D7647 >320	▲ 647	61	184
Particles >21µm	ASTM D7647 >80	▲ 99	11	21
Particles >38µm	ASTM D7647 >20	2	0	1
Particles >71µm	ASTM D7647 >4	1	0	0
Oil Cleanliness	ISO 4406 (c) >20/17/15	▲ 22/21/17	19/17/13	▲ 22/20/15

FLUID DEGRADATION

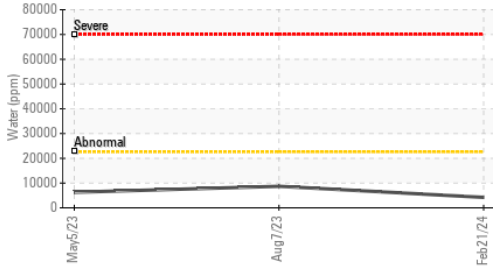
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.23	0.15	0.06

OIL ANALYSIS REPORT

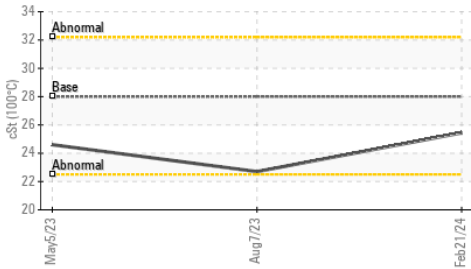
▲ Particle Trend



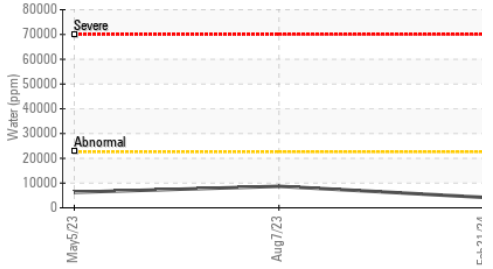
Water (KF)



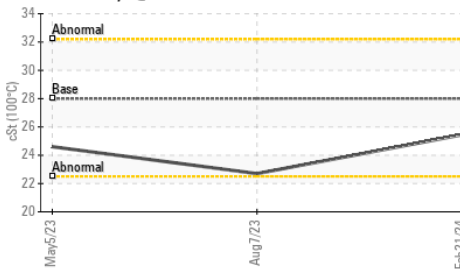
Viscosity @ 100°C



Water (KF)



Viscosity @ 100°C



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	>2.26	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	151	126	121
Visc @ 100°C	cSt	ASTM D445	28	25.44	22.7
Viscosity Index (VI)	Scale	ASTM D2270	224	237	218

SAMPLE IMAGES

Color

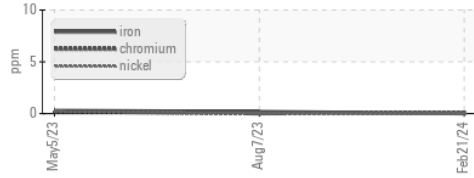


Bottom

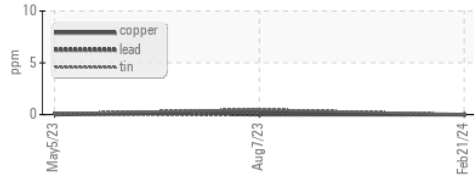


GRAPHS

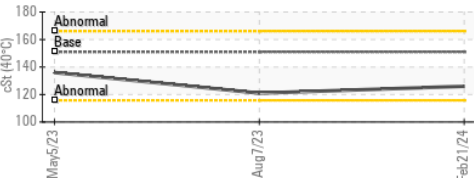
Ferrous Alloys



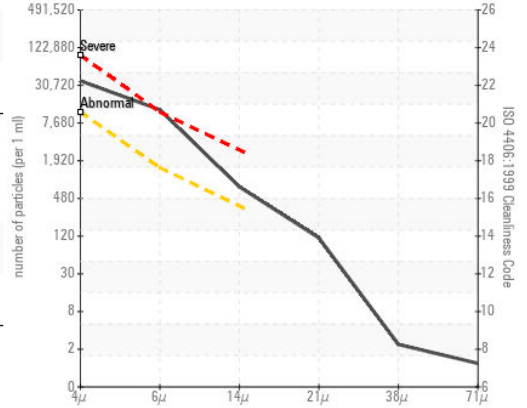
Non-ferrous Metals



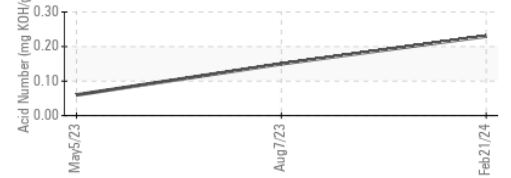
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

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

Sample No. : TO60002087

Lab Number : 06100926

Unique Number : 10899156

Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

Received : 26 Feb 2024

Tested : 01 Mar 2024

Diagnosed : 01 Mar 2024 - Don Baldrige

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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