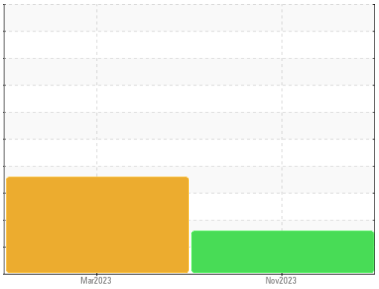
PROBLEM SUMMARY

Area
Wax Cups
Machine Id
POS 49
Component
Unknown Component
Fluid
TULCO LUBSOIL INDUSTRIAL GEAR OIL 150 (--- GAL)

Sample Rating Trend



SEDIMENT

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	---
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	---
Appearance	scalar	*Visual	NORML	▲ **HAZY**	NORML	---

Customer Id: DARDALTX
Sample No.: TO50001527
Lab Number: 06014036
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

30 Mar 2023 Diag: Doug Bogart

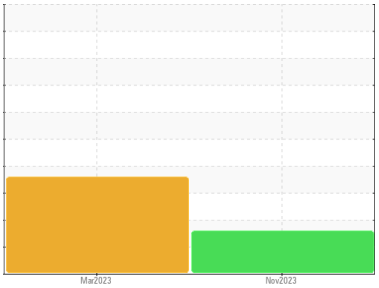
DIRT

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the sample. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the sample is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT

Area
Wax Cups
Machine Id
POS 49
Component
Unknown Component
Fluid
TULCO LUBSOIL INDUSTRIAL GEAR OIL 150 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. There is a moderate amount of visible silt present in the sample.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO50001527**	TO50001571	---
Sample Date		Client Info		**16 Nov 2023**	30 Mar 2023	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Not Changd**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**15**	21	---
Iron	ppm	ASTM D5185m		**36**	37	---
Chromium	ppm	ASTM D5185m		**<1**	0	---
Nickel	ppm	ASTM D5185m		**3**	0	---
Titanium	ppm	ASTM D5185m		**<1**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m		**2**	<1	---
Lead	ppm	ASTM D5185m		**2**	2	---
Copper	ppm	ASTM D5185m		**4**	5	---
Tin	ppm	ASTM D5185m		**<1**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**<1**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	13	**10**	0	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**<1**	0	---
Manganese	ppm	ASTM D5185m		**<1**	1	---
Magnesium	ppm	ASTM D5185m		**1**	10	---
Calcium	ppm	ASTM D5185m		**5**	9	---
Phosphorus	ppm	ASTM D5185m	170	**272**	225	---
Zinc	ppm	ASTM D5185m		**3**	16	---
Sulfur	ppm	ASTM D5185m	6300	**6459**	6657	---

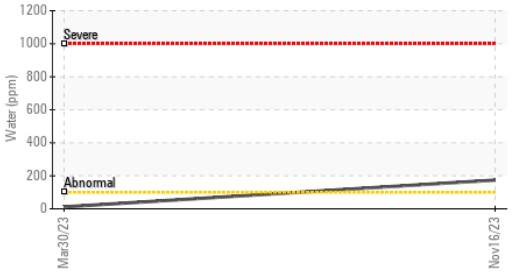
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**2411**	▲ 695	---
Sodium	ppm	ASTM D5185m		**4**	7	---
Potassium	ppm	ASTM D5185m	>20	**2**	2	---
Water	%	ASTM D6304		**0.017**	0.001	---
ppm Water	ppm	ASTM D6304		**174**	11.9	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**---**	▲ 156801	---
Particles >6µm		ASTM D7647	>1300	**---**	▲ 32667	---
Particles >14µm		ASTM D7647	>160	**---**	▲ 454	---
Particles >21µm		ASTM D7647	>40	**---**	▲ 64	---
Particles >38µm		ASTM D7647	>10	**---**	1	---
Particles >71µm		ASTM D7647	>3	**---**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**---**	▲ 24/22/16	---

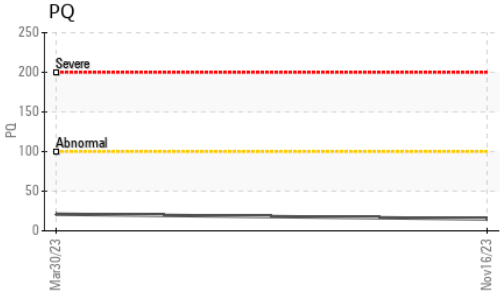
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.50**	0.52	---

OIL ANALYSIS REPORT

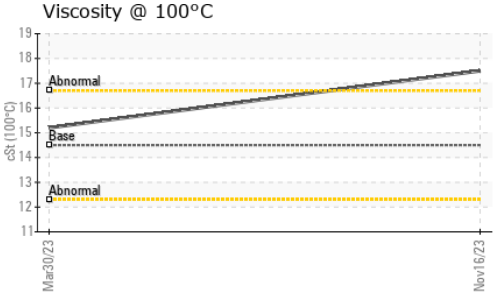
Water (KF)



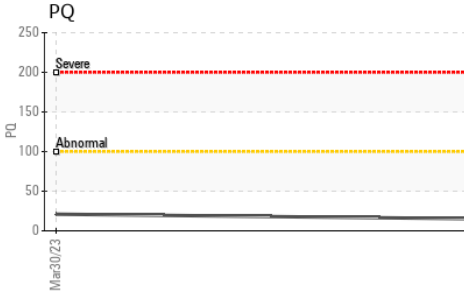
PQ



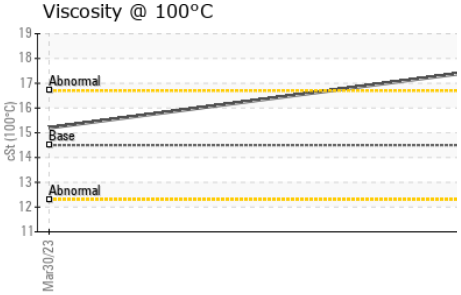
Viscosity @ 100°C



PQ

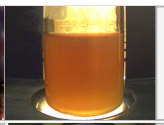
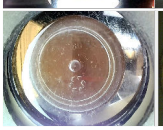
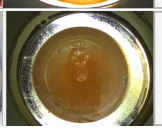


Viscosity @ 100°C



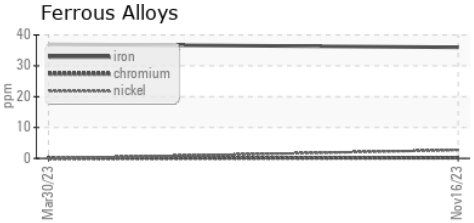
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	148	**179.2**	163	---
Visc @ 100°C	cSt	ASTM D445	14.5	**17.5**	15.2	---
Viscosity Index (VI)	Scale	ASTM D2270	96	**105**	93	---

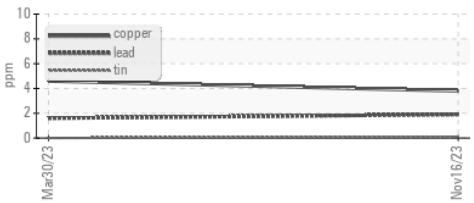
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

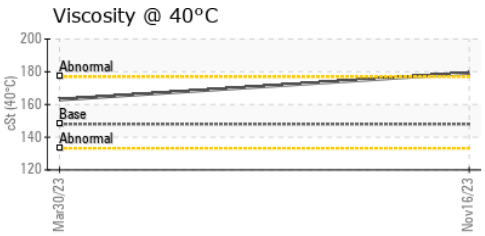
Ferrous Alloys



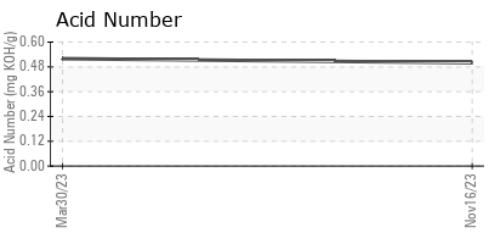
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001527 **Received** : 21 Nov 2023
Lab Number : 06014036 **Diagnosed** : 30 Nov 2023
Unique Number : 10753180 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

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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Report Id: DARDALTX [WUSCAR] 06014036 (Generated: 11/30/2023 10:42:41) Rev: 1

Submitted By: YON PALOMINO