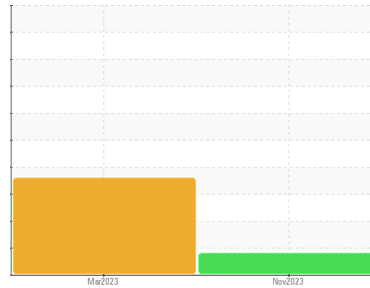


PROBLEM SUMMARY

Area
Wax Cups
 Machine Id
POS 55
 Component
Unknown Component
 Fluid
TULCO LUBSOIL INDUSTRIAL GEAR OIL 150 (--- GAL)

Sample Rating Trend



ISO



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	ABNORMAL	---
Particles >4µm	ASTM D7647	>5000	▲ 9586	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/15/10	---	---

Customer Id: DARDALTX
 Sample No.: TO50001749
 Lab Number: 06014035
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

30 Mar 2023 Diag: Angela Borella

DIRT



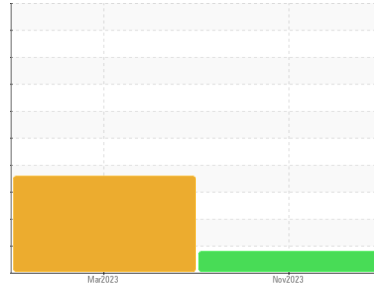
Check seals and/or filters for points of contaminant entry. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Moderate concentration of visible metal present. All component wear rates are normal. Appearance is hazy. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the sample is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Wax Cups
Machine Id
POS 55
Component
Unknown Component
Fluid
TULCO LUBSOIL INDUSTRIAL GEAR OIL 150 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate amount of silt (particulates < 14 microns in size) 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	TO50001749	TO50001602	---
Sample Date	Client Info	16 Nov 2023	30 Mar 2023	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	Not Changed	N/A	---
Sample Status		ATTENTION	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	16	14	---
Iron	ppm	ASTM D5185m	28	24
Chromium	ppm	ASTM D5185m	<1	0
Nickel	ppm	ASTM D5185m	1	0
Titanium	ppm	ASTM D5185m	<1	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m	2	<1
Lead	ppm	ASTM D5185m	<1	0
Copper	ppm	ASTM D5185m	3	4
Tin	ppm	ASTM D5185m	0	0
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	13	3
Barium	ppm	ASTM D5185m		0
Molybdenum	ppm	ASTM D5185m		<1
Manganese	ppm	ASTM D5185m		<1
Magnesium	ppm	ASTM D5185m		<1
Calcium	ppm	ASTM D5185m		2
Phosphorus	ppm	ASTM D5185m	170	256
Zinc	ppm	ASTM D5185m		33
Sulfur	ppm	ASTM D5185m	6300	6784

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		884
Sodium	ppm	ASTM D5185m		<1
Potassium	ppm	ASTM D5185m	>20	2
Water	%	ASTM D6304		0.016
ppm Water	ppm	ASTM D6304		161

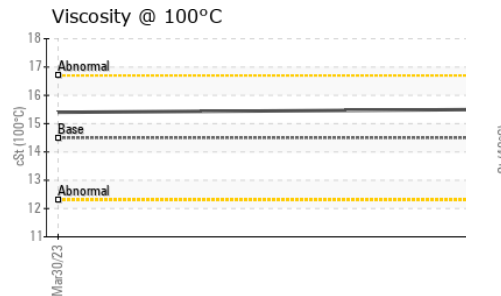
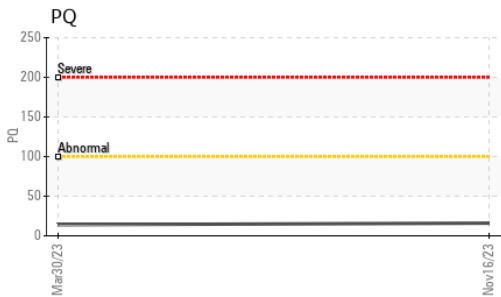
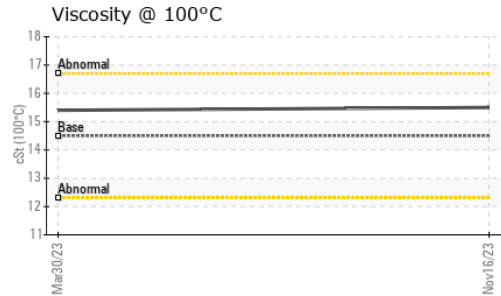
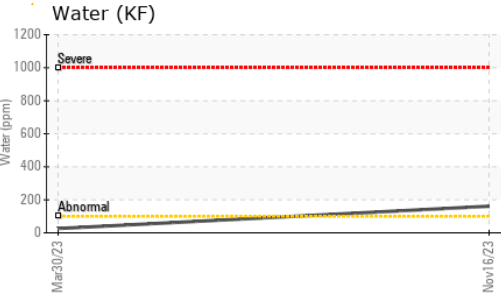
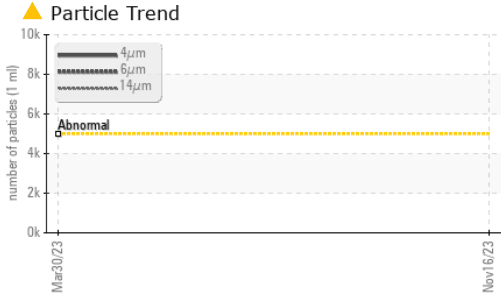
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 9586	---
Particles >6µm	ASTM D7647	>1300	259	---
Particles >14µm	ASTM D7647	>160	8	---
Particles >21µm	ASTM D7647	>40	2	---
Particles >38µm	ASTM D7647	>10	1	---
Particles >71µm	ASTM D7647	>3	1	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/15/10	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.48	0.54

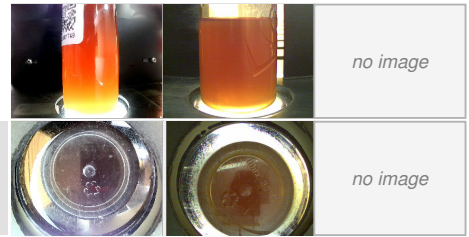
OIL ANALYSIS REPORT



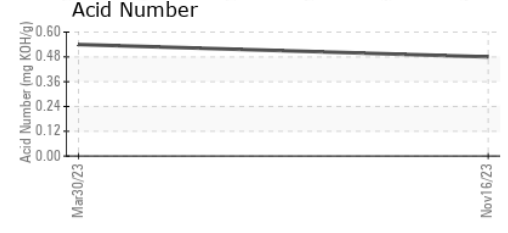
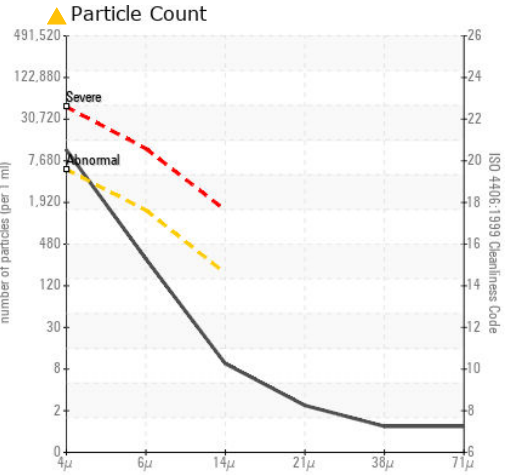
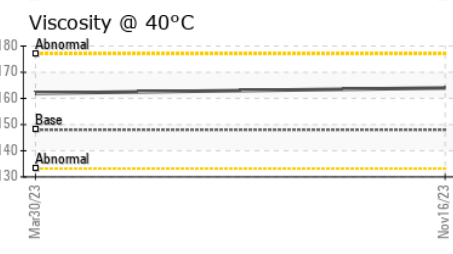
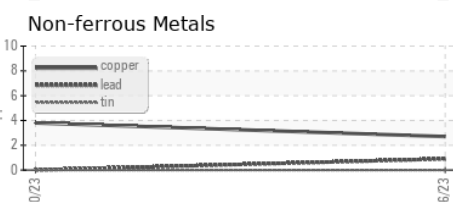
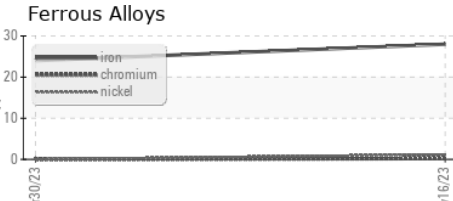
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	▲ MODER	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	▲ HAZY	---
Odor	scalar	*Visual	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	162	---
Visc @ 100°C	cSt	ASTM D445	14.5	15.4	---
Viscosity Index (VI)	Scale	ASTM D2270	96	95	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001749 **Received** : 21 Nov 2023
Lab Number : 06014035 **Diagnosed** : 24 Nov 2023
Unique Number : 10753179 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

DART CONTAINER CORPORATION
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 DALLAS, TX
 US 75236
 Contact: YON PALOMINO
 yon.palomino@dart.biz
 T: (214)775-5673
 F:

Certificate L2367
 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)