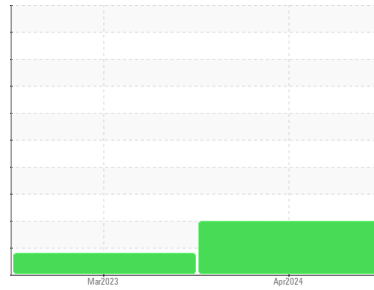


OIL ANALYSIS REPORT

Sample Rating Trend



Area
Wax Cups
Machine Id
POS 39
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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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	TO50002189	TO50001547	---
Sample Date	Client Info	03 Apr 2024	30 Mar 2023	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Not Chngd	N/A	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	14	13
Chromium	ppm	ASTM D5185m	<1	0
Nickel	ppm	ASTM D5185m	2	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	4	2
Tin	ppm	ASTM D5185m	<1	0
Vanadium	ppm	ASTM D5185m	<1	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	13	<1
Barium	ppm	ASTM D5185m		0
Molybdenum	ppm	ASTM D5185m		0
Manganese	ppm	ASTM D5185m		<1
Magnesium	ppm	ASTM D5185m		<1
Calcium	ppm	ASTM D5185m		6
Phosphorus	ppm	ASTM D5185m	170	203
Zinc	ppm	ASTM D5185m		5
Sulfur	ppm	ASTM D5185m	6300	1368

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		2163
Sodium	ppm	ASTM D5185m		1
Potassium	ppm	ASTM D5185m	>20	1
Water	%	ASTM D6304		0.003
ppm Water	ppm	ASTM D6304		30

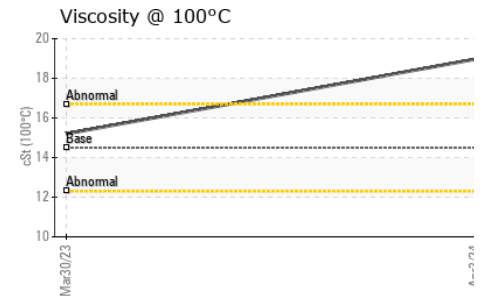
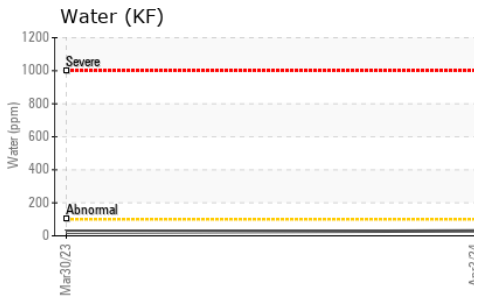
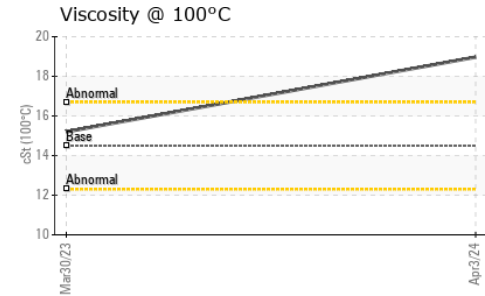
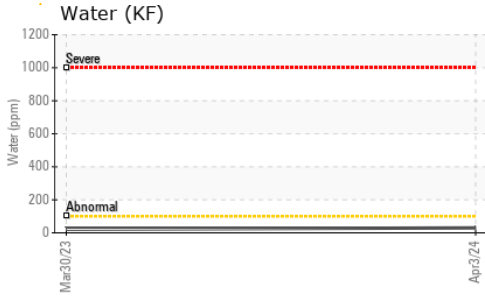
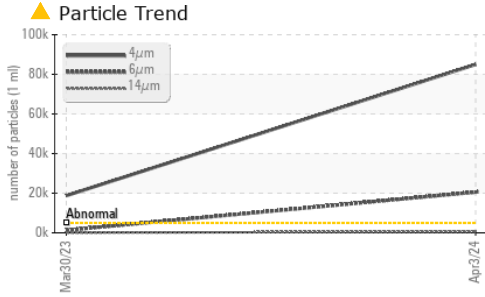
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	85005	18756
Particles >6µm	ASTM D7647	>1300	20551	1298
Particles >14µm	ASTM D7647	>160	587	46
Particles >21µm	ASTM D7647	>40	74	15
Particles >38µm	ASTM D7647	>10	1	2
Particles >71µm	ASTM D7647	>3	0	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	24/22/16	21/17/13

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.47	0.54

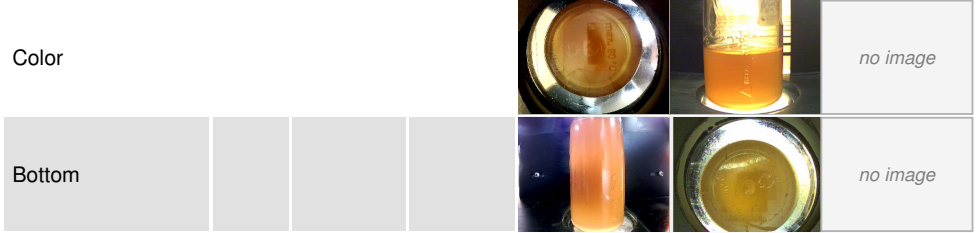
OIL ANALYSIS REPORT



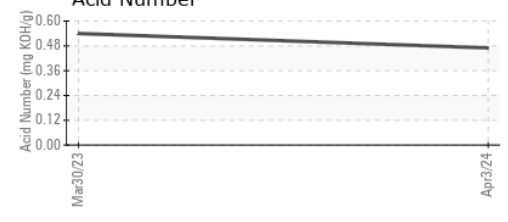
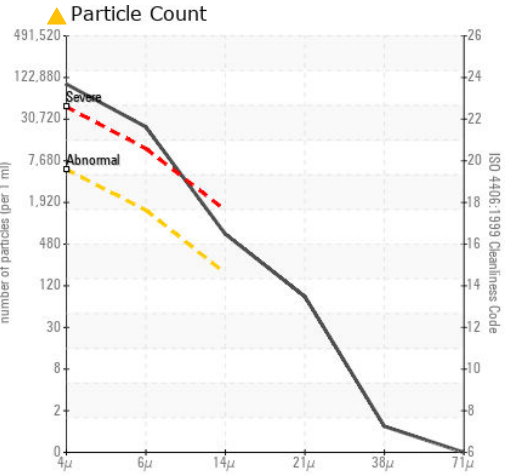
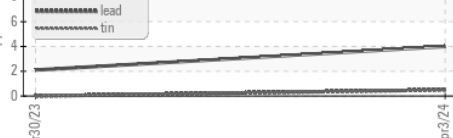
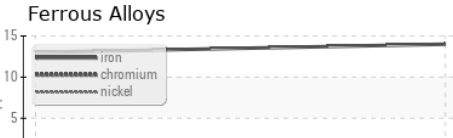
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	161.0	---
Visc @ 100°C	cSt	ASTM D445	14.5	15.2	---
Viscosity Index (VI)	Scale	ASTM D2270	96	94	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002189 **Received** : 08 Apr 2024
Lab Number : 06141326 **Tested** : 15 Apr 2024
Unique Number : 10966134 **Diagnosed** : 15 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

DART CONTAINER CORPORATION
 4444 W LEADBETTER DR
 DALLAS, TX
 US 75236
 Contact: YON PALOMINO
 yon.palomino@dart.biz
 T: (214)775-5673
 F:

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)