

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

LD 1
Component
Gearbox

Fluid
TULCO LUBSOIL INDUSTRIAL GEAR OIL 320 (--- QTS)

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 oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	TO50002300	---	---
Sample Date	Client Info	27 Mar 2024	---	---
Machine Age	mths	Client Info	2	---
Oil Age	mths	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

CONTAMINATION method limit/base current history1 history2

Water	WC Method	>0.2	NEG	---	---
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WEAR METALS method limit/base current history1 history2

PQ		ASTM D8184		16	---	---
Iron	ppm	ASTM D5185m	>200	1	---	---
Chromium	ppm	ASTM D5185m	>15	0	---	---
Nickel	ppm	ASTM D5185m	>15	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	<1	---	---
Lead	ppm	ASTM D5185m	>100	0	---	---
Copper	ppm	ASTM D5185m	>200	<1	---	---
Tin	ppm	ASTM D5185m	>25	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
Cadmium	ppm	ASTM D5185m		0	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m	10	0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		1	---	---
Calcium	ppm	ASTM D5185m		1	---	---
Phosphorus	ppm	ASTM D5185m	125	114	---	---
Zinc	ppm	ASTM D5185m		0	---	---
Sulfur	ppm	ASTM D5185m	5850	8275	---	---

CONTAMINANTS method limit/base current history1 history2



Silicon	ppm	ASTM D5185m	>50	<1	---	---
Sodium	ppm	ASTM D5185m		<1	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---

VISUAL method limit/base current history1 history2

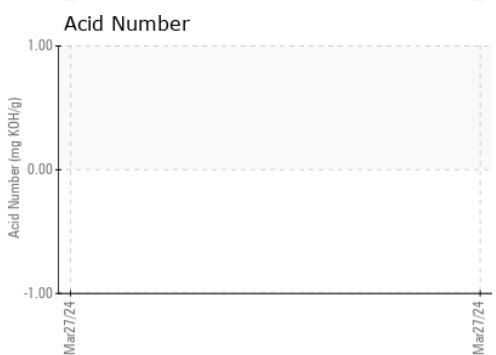
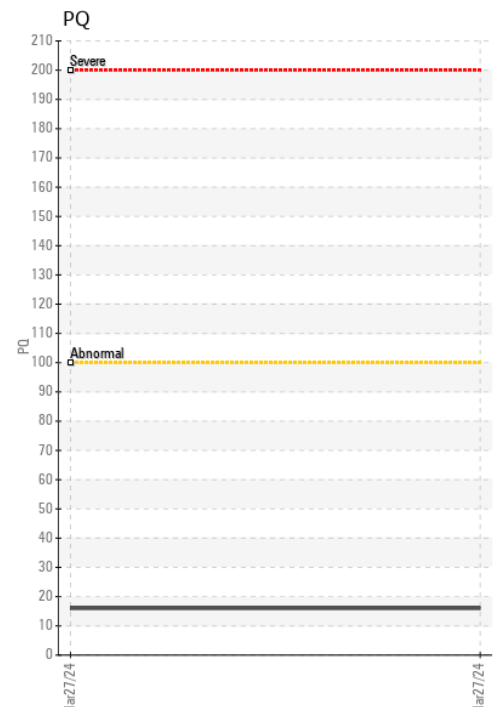
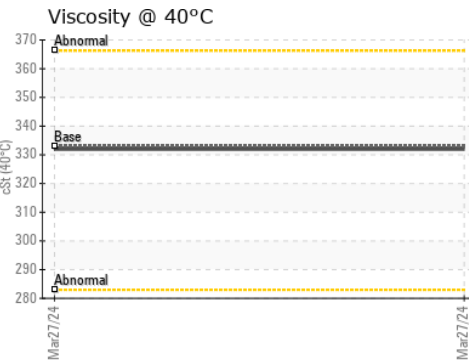
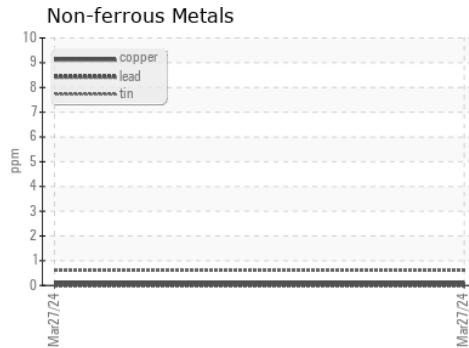
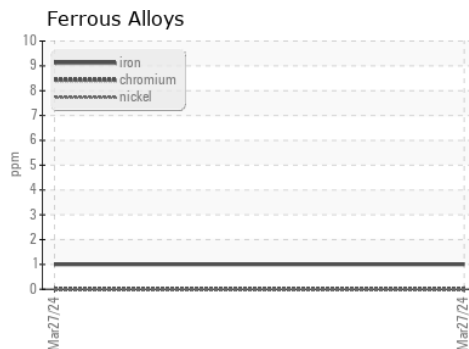
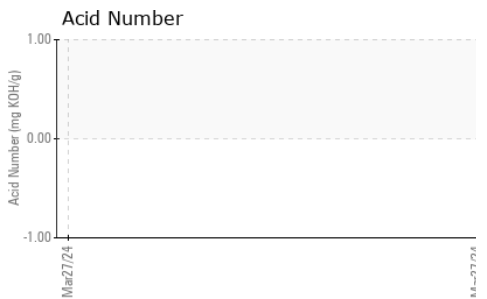
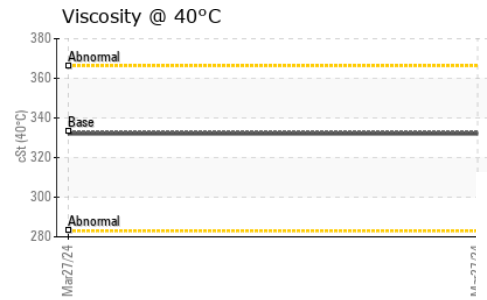
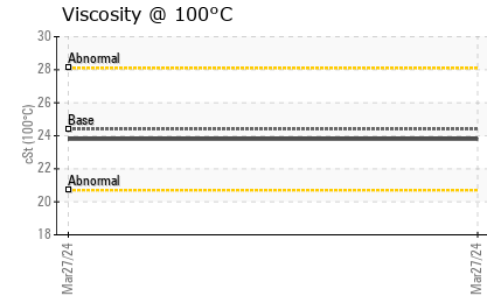
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

OIL ANALYSIS REPORT

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	333	332	---
Visc @ 100°C	cSt	ASTM D445	24.4	23.8	---
Viscosity Index (VI)	Scale	ASTM D2270	94	90	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002300 **Received** : 05 Apr 2024
Lab Number : **06140721** **Tested** : 09 Apr 2024
Unique Number : 10965529 **Diagnosed** : 09 Apr 2024 - Sean Felton
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

HERITAGE BAG CO
 501 GATEWAY PKWY
 ROANOKE, TX
 US 76262-3481
 Contact: BRIAN WALKER
 brian.walker@novolex.com

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)

T:
F: