

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
SETH BIRCH
 Component
Gearbox
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear
 All component wear rates are normal.

Contamination
 Elemental level of silicon (Si) above normal indicating ingress of seal material.

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	TO70000149	---	---
Sample Date	Client Info	19 Mar 2024	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	16	---	---
Iron	ppm	ASTM D5185m	>200	14
Chromium	ppm	ASTM D5185m	>15	<1
Nickel	ppm	ASTM D5185m	>15	<1
Titanium	ppm	ASTM D5185m		<1
Silver	ppm	ASTM D5185m		0
Aluminum	ppm	ASTM D5185m	>25	2
Lead	ppm	ASTM D5185m	>100	<1
Copper	ppm	ASTM D5185m	>200	11
Tin	ppm	ASTM D5185m	>25	<1
Vanadium	ppm	ASTM D5185m		<1
Cadmium	ppm	ASTM D5185m		<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1
Barium	ppm	ASTM D5185m		0
Molybdenum	ppm	ASTM D5185m		<1
Manganese	ppm	ASTM D5185m		<1
Magnesium	ppm	ASTM D5185m		3
Calcium	ppm	ASTM D5185m		55
Phosphorus	ppm	ASTM D5185m		20
Zinc	ppm	ASTM D5185m		10
Sulfur	ppm	ASTM D5185m		107

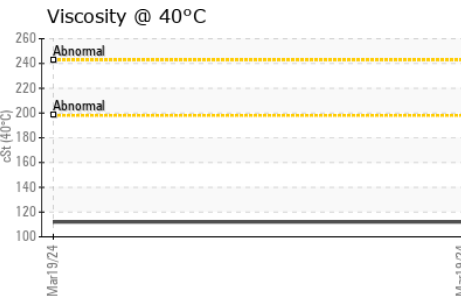
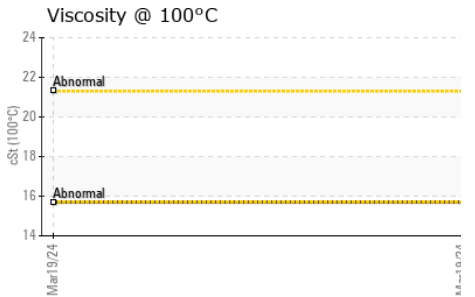
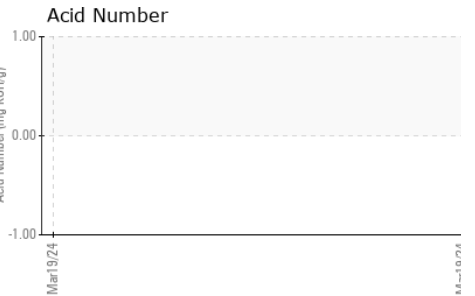
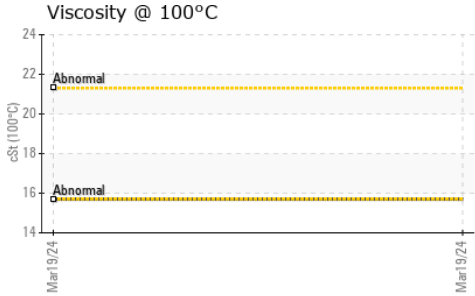
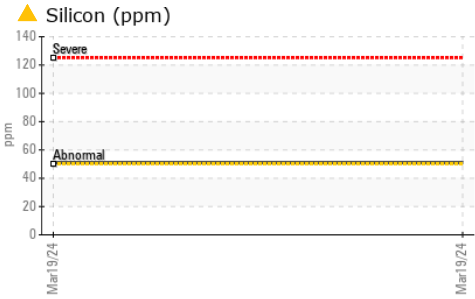
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ 51
Sodium	ppm	ASTM D5185m		3
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	MODER
Debris	scalar	*Visual	NONE	NONE
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

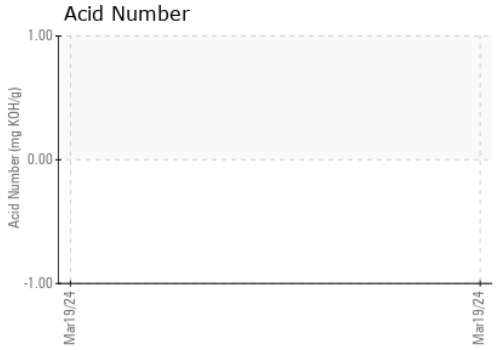
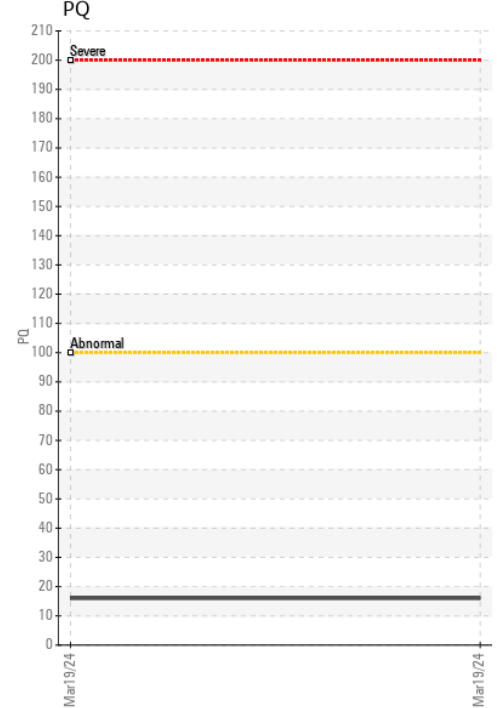
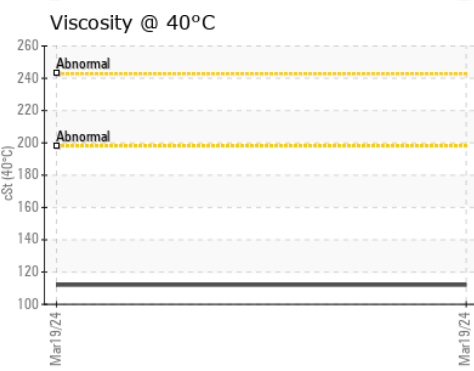
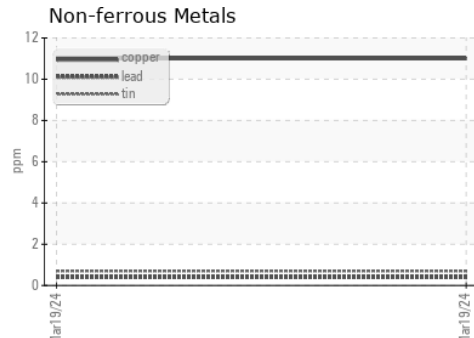
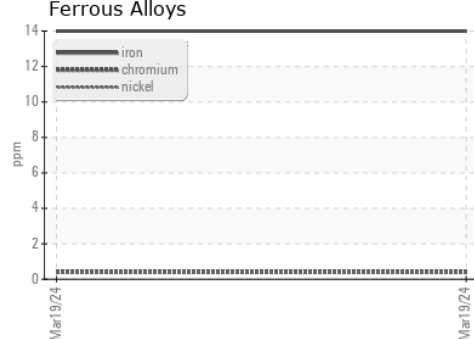
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	112	---	---
Visc @ 100°C	cSt	ASTM D445	15.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270	148	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO70000149 **Received** : 20 Mar 2024
Lab Number : **06123981** **Tested** : 25 Mar 2024
Unique Number : 10938132 **Diagnosed** : 25 Mar 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

TULCO OILS INC (007-INTERNATIONAL DIVISION)
 5240 EAST PINE
 TULSA, OK
 US 74115
 Contact: JIM WESTOVER
 jimwestover@tulco.com
 T: (918)526-3035
 F: (918)834-1263

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)