IND II

TULCO OILS 001 - Tulsa Division

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DRUM 626 - MOBIL SHC 626
Component
New (Unused) Oil
Fluid
MOBIL SHC 626 (--- GAL)

RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10003445	---	---
Sample Date		Client Info		19 Jun 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

Iron	ppm	ASTM D5185m	>5	0	---	---
Chromium	ppm	ASTM D5185m	>5	0	---	---
Nickel	ppm	ASTM D5185m	>5	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m	>5	0	---	---
Aluminum	ppm	ASTM D5185m	>5	0	---	---
Lead	ppm	ASTM D5185m	>5	0	---	---
Copper	ppm	ASTM D5185m	>5	0	---	---
Tin	ppm	ASTM D5185m	>5	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

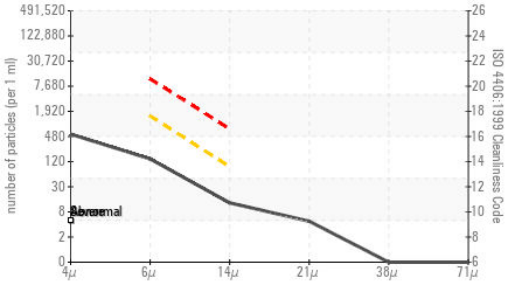
CONTAMINATION

Silicon	ppm	ASTM D5185m	>15	<1	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water	%	ASTM D6304		0.002	---	---
ppm Water	ppm	ASTM D6304		21	---	---
Particles >4µm		ASTM D7647		481	---	---
Particles >6µm		ASTM D7647	>1300	123	---	---
Particles >14µm		ASTM D7647	>80	11	---	---
Particles >21µm		ASTM D7647	>20	4	---	---
Particles >38µm		ASTM D7647	>4	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	16/14/11	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
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		NEG	---	---

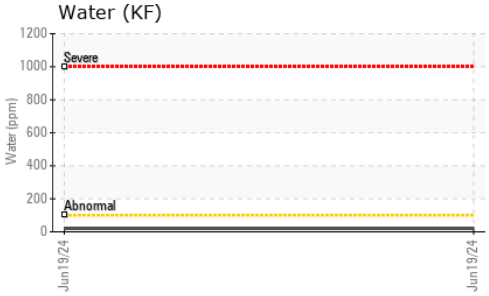
FLUID CONDITION

Sodium	ppm	ASTM D5185m		1	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		0	---	---
Calcium	ppm	ASTM D5185m		2	---	---
Phosphorus	ppm	ASTM D5185m		488	---	---
Zinc	ppm	ASTM D5185m		7	---	---
Sulfur	ppm	ASTM D5185m		<1	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.73	---	---
Visc @ 40°C	cSt	ASTM D445	69.9	69.37	---	---
Visc @ 100°C	cSt	ASTM D445	10.9	12.18	---	---
Viscosity Index (VI)	Scale	ASTM D2270	147	174	---	---

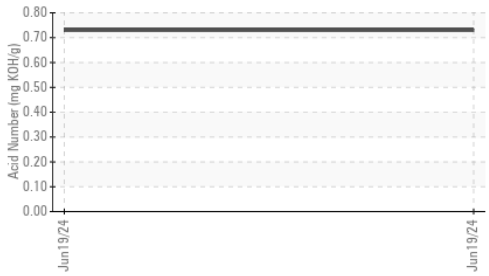
Particle Count



Water (KF)

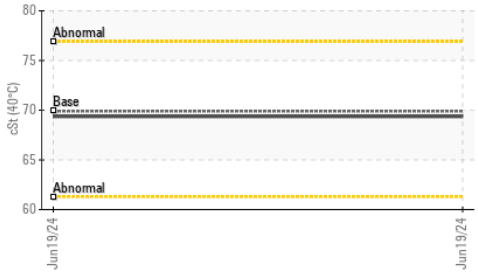


Acid Number

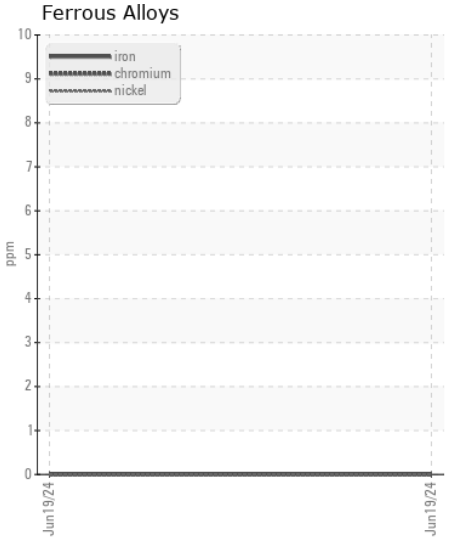


Viscosity @ 100°C

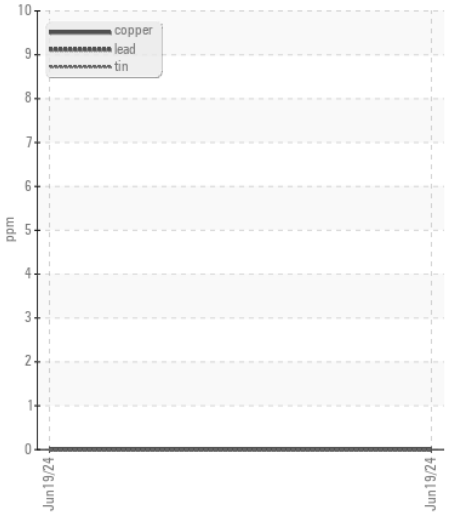
Viscosity @ 40°C



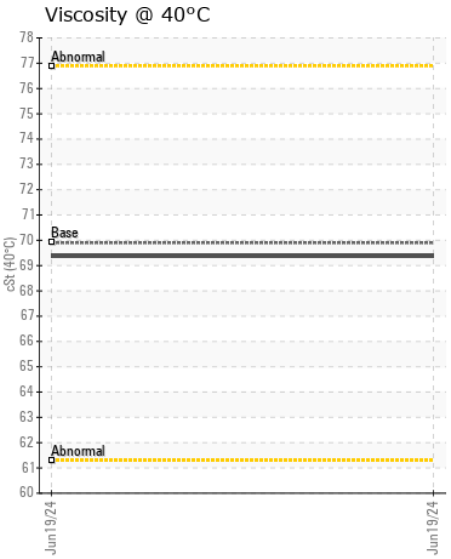
Ferrous Alloys



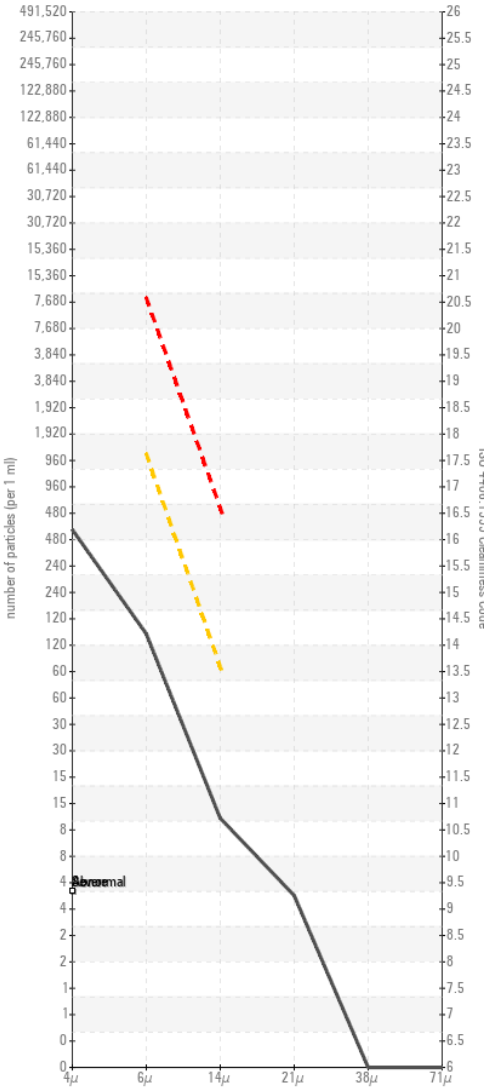
Non-ferrous Metals



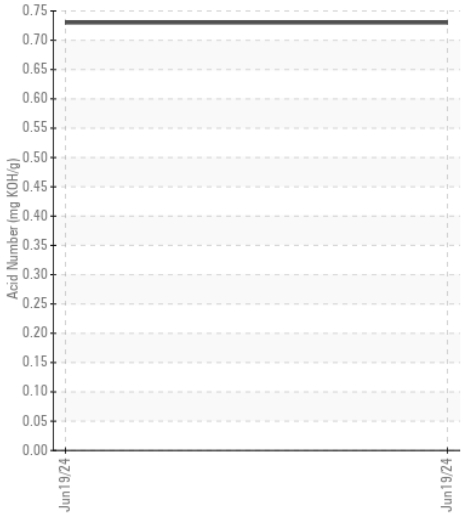
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003445
Lab Number : 06216232
Unique Number : 11089096
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, VI)

Received : 20 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 Jun 2024 - Jonathan Hester

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)

KOCH INDUSTRIAL FERTILIZER
1619 S 78TH ST
ENID, OK
US 73701
Contact: ALEX QUERRY
alexander.querry@kochind.com
T:
F: