IND II

TULCO OILS 005 - Arlington Division

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
CAE CAE HPU - T050000885 (S/N NO INFO ON SIF/BOTTLE)
Component
Hydraulic System
Fluid
SHELL TELLUS (--- GAL)

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

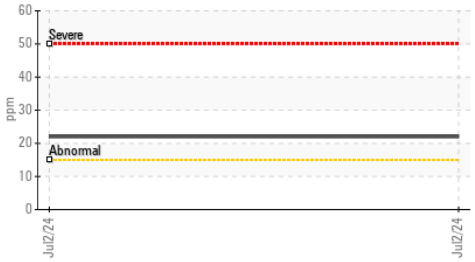
Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

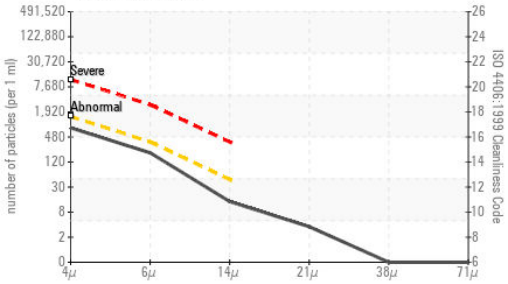
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		T050000885	---	---
Sample Date		Client Info		02 Jul 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				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>20	<1	---	---
Chromium	ppm	ASTM D5185m	>20	<1	---	---
Nickel	ppm	ASTM D5185m	>20	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>20	2	---	---
Lead	ppm	ASTM D5185m	>20	1	---	---
Copper	ppm	ASTM D5185m	>20	1	---	---
Tin	ppm	ASTM D5185m	>20	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>15	▲ 22	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---
Water	%	ASTM D6304	>0.05	0.002	---	---
ppm Water	ppm	ASTM D6304	>500	18	---	---
Particles >4µm		ASTM D7647	>1300	701	---	---
Particles >6µm		ASTM D7647	>320	176	---	---
Particles >14µm		ASTM D7647	>40	12	---	---
Particles >21µm		ASTM D7647	>10	3	---	---
Particles >38µm		ASTM D7647	>3	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>17/15/12	17/15/11	---	---
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	>0.05	NEG	---	---
Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		88	---	---
Calcium	ppm	ASTM D5185m		128	---	---
Phosphorus	ppm	ASTM D5185m		311	---	---
Zinc	ppm	ASTM D5185m		402	---	---
Sulfur	ppm	ASTM D5185m		1813	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.30	---	---
Visc @ 40°C	cSt	ASTM D445		44.9	---	---
Visc @ 100°C	cSt	ASTM D445		6.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270		105	---	---

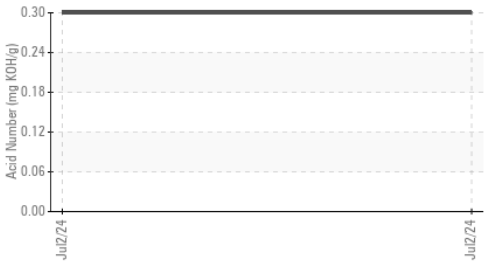
Silicon (ppm)



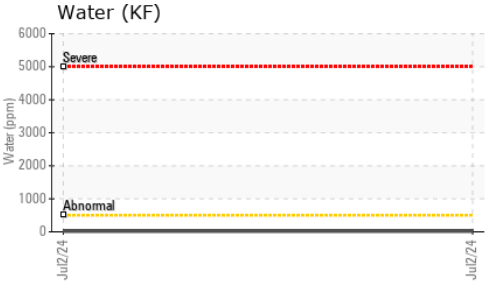
Particle Count



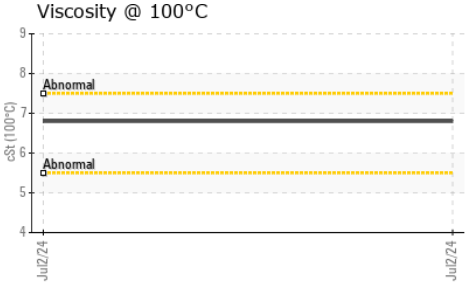
Acid Number



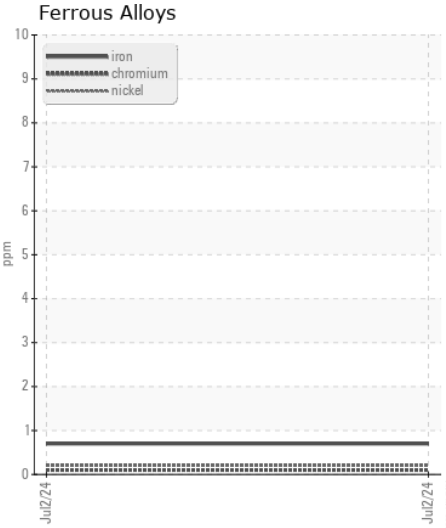
Water (KF)



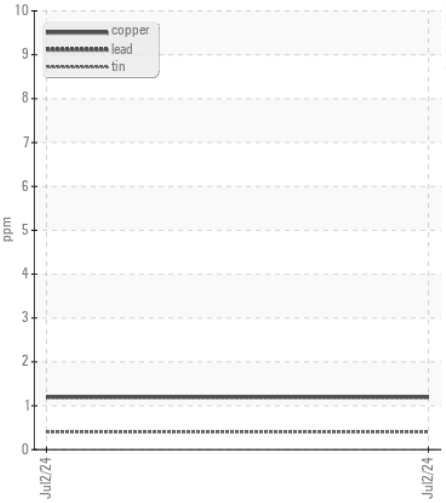
Viscosity @ 100°C



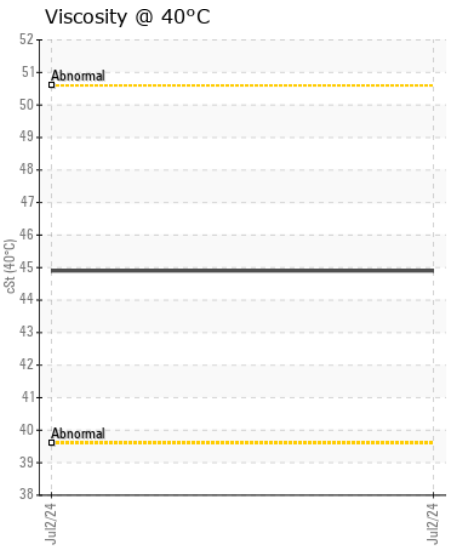
Ferrous Alloys



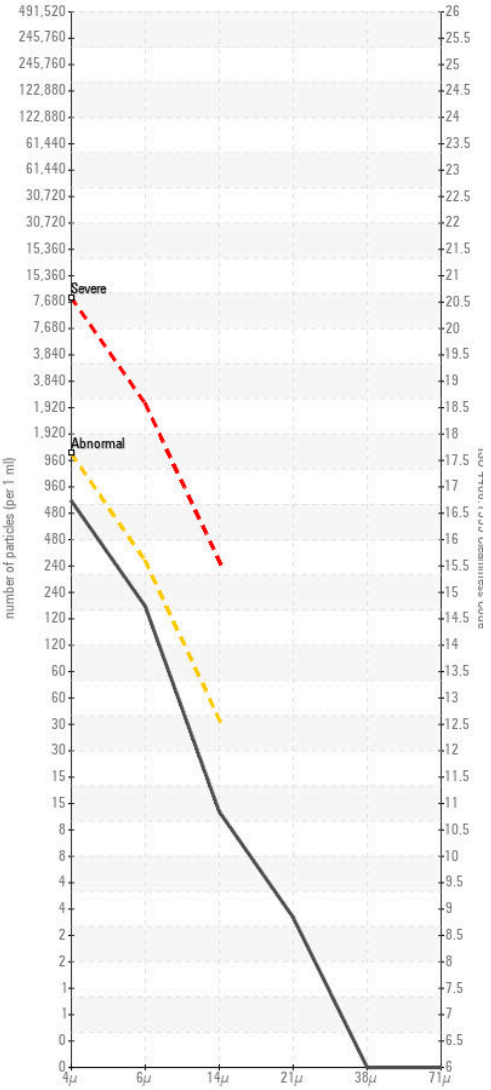
Non-ferrous Metals



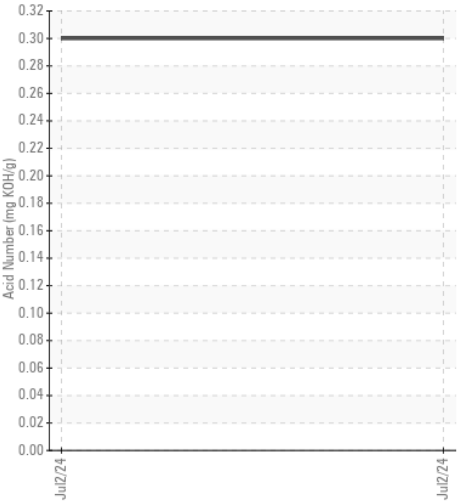
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50000885
Lab Number : 06231490
Unique Number : 11114983
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

Received : 09 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 11 Jul 2024 - Jonathan Hester

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)

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