IND II

TULCO OILS 005 - Arlington Division

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
EMPE
Machine Id
P210-15-1032
Component
Hydraulic System
Fluid
TULCO LUBSOIL SUPER HYDRAULIC AW 68 (200 GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

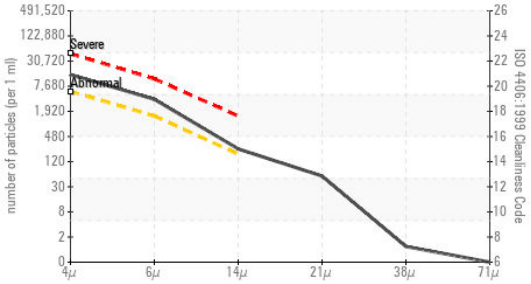
There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

FLUID CONDITION

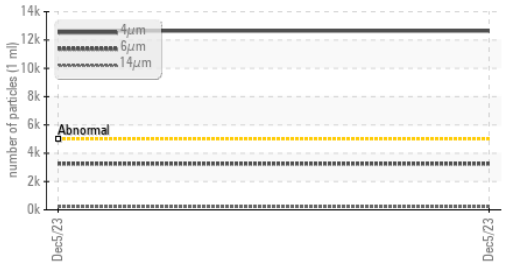
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO5002463	---	---
Sample Date		Client Info		05 Dec 2023	---	---
Machine Age	hrs	Client Info		5230	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>20	0	---	---
Chromium	ppm	ASTM D5185m	>20	<1	---	---
Nickel	ppm	ASTM D5185m	>20	<1	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>20	0	---	---
Lead	ppm	ASTM D5185m	>20	0	---	---
Copper	ppm	ASTM D5185m	>20	1	---	---
Tin	ppm	ASTM D5185m	>20	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>15	▲ 16	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water	%	ASTM D6304	>0.05	0.008	---	---
ppm Water	ppm	ASTM D6304	>500	83	---	---
Particles >4µm		ASTM D7647	>5000	▲ 12642	---	---
Particles >6µm		ASTM D7647	>1300	▲ 3260	---	---
Particles >14µm		ASTM D7647	>160	▲ 213	---	---
Particles >21µm		ASTM D7647	>40	▲ 48	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/19/15	---	---
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		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		67	---	---
Calcium	ppm	ASTM D5185m		66	---	---
Phosphorus	ppm	ASTM D5185m	425	310	---	---
Zinc	ppm	ASTM D5185m	500	400	---	---
Sulfur	ppm	ASTM D5185m	1900	1557	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.39	---	---
Visc @ 40°C	cSt	ASTM D445	67.4	67.1	---	---
Visc @ 100°C	cSt	ASTM D445	8.8	8.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270	102	103	---	---

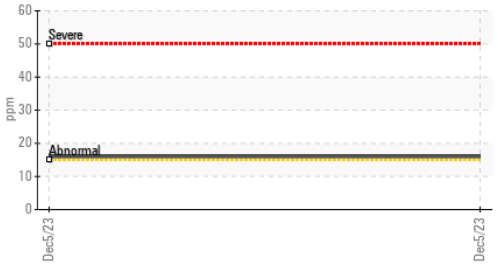
Particle Count



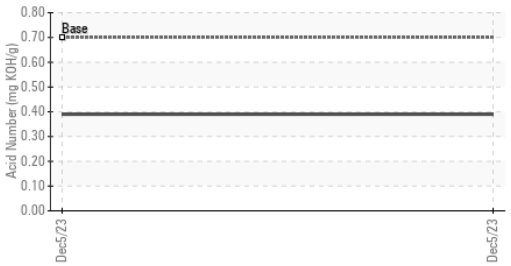
Particle Trend



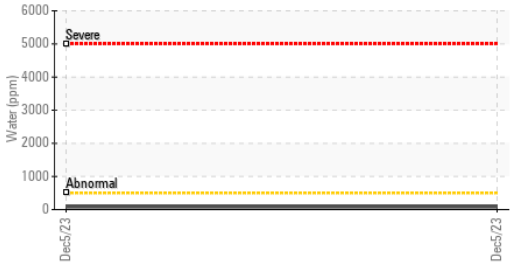
Silicon (ppm)



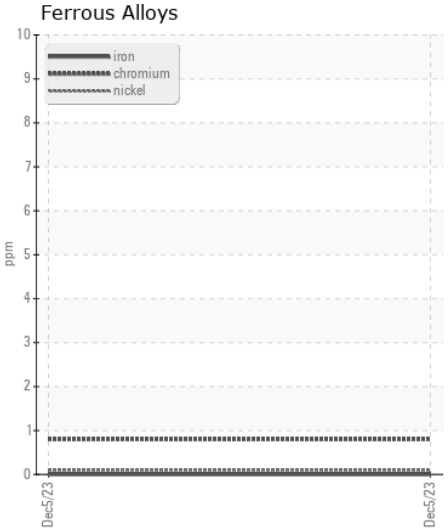
Acid Number



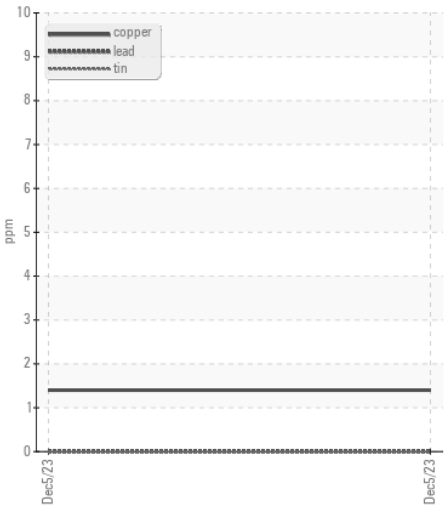
Water (KF)



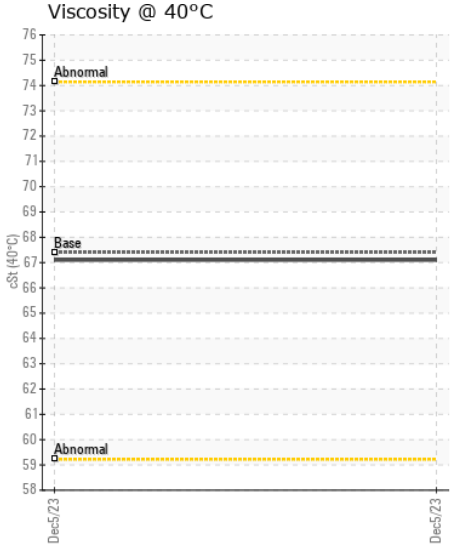
Ferrous Alloys



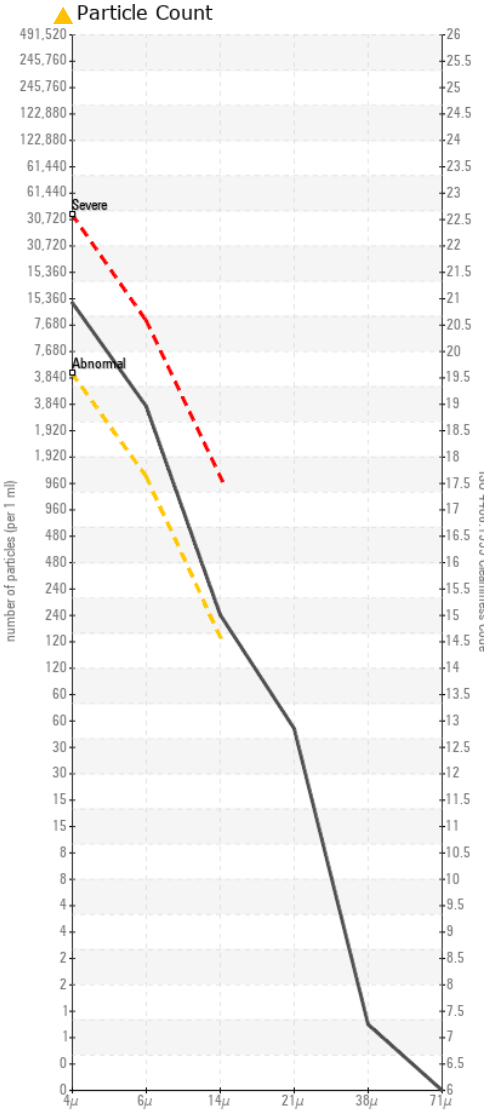
Non-ferrous Metals



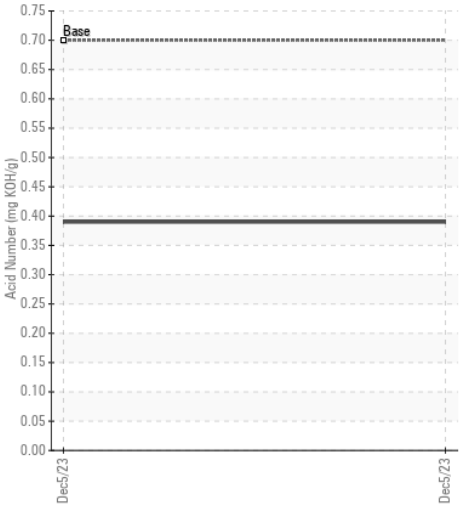
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: TO5002463	**Recieved**	: 15 Dec 2023
Lab Number	: 06036073	**Diagnosed**	: 19 Dec 2023
Unique Number	: 10791302	**Diagnostician**	: Don Baldridge
Test Package	: IND 2 (Additional Tests: KF, KV100, VI)		

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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