



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
EMPE
Machine Id
P210-10-1037 (S/N V605)
Component
Hydraulic System
Fluid
TULCO LUBSOIL SUPER HYDRAULIC AW 68 (200 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO50001277	---	---
Sample Date		Client Info		22 Dec 2023	---	---
Machine Age	hrs	Client Info		25111	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				ATTENTION	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	0	---	---
Chromium	ppm	ASTM D5185m	>20	0	---	---
Nickel	ppm	ASTM D5185m	>20	0	---	---
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	15	---	---
Tin	ppm	ASTM D5185m	>20	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

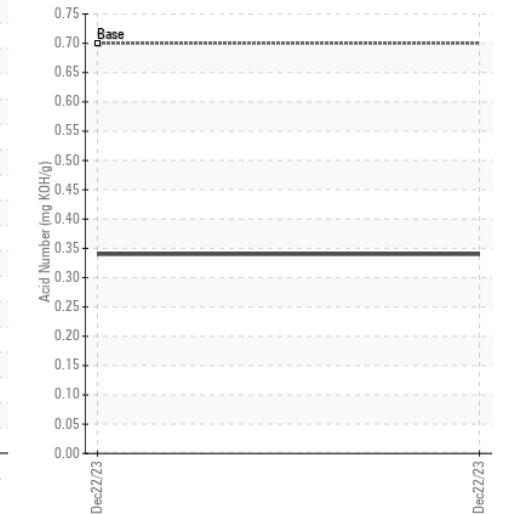
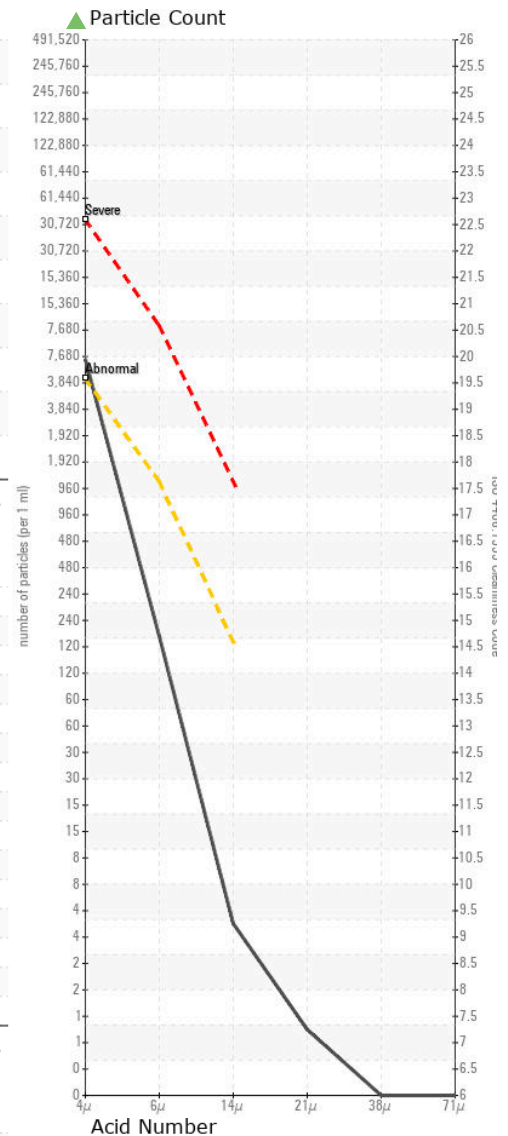
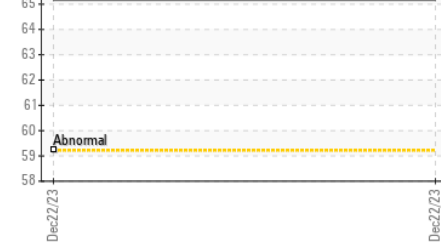
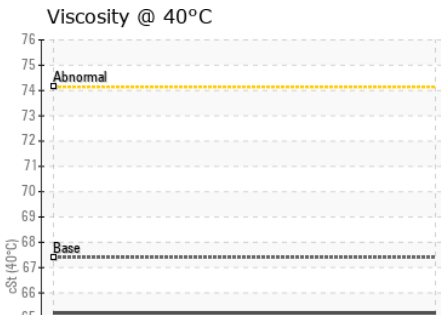
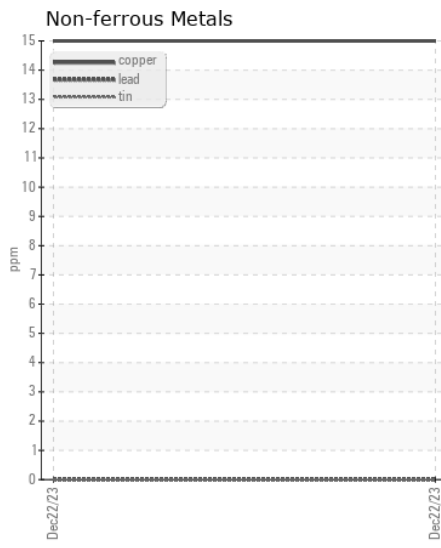
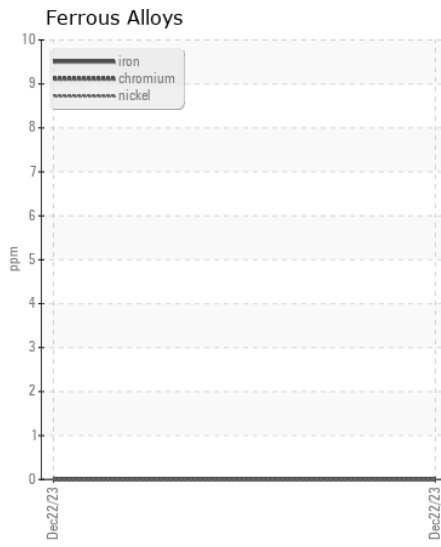
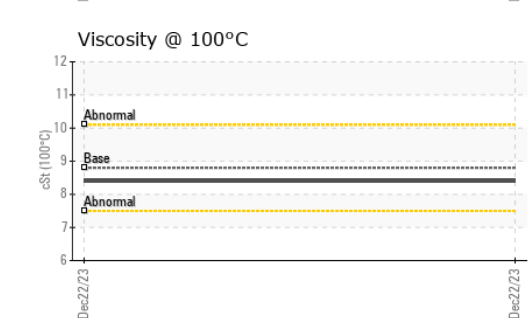
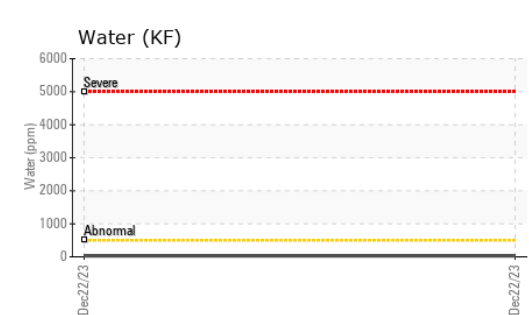
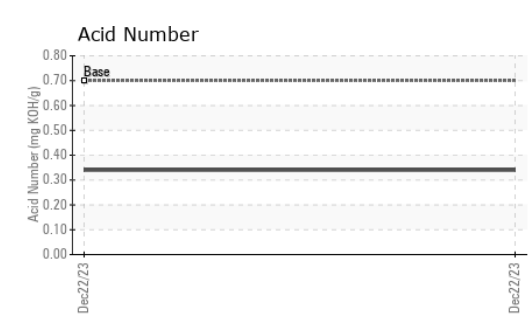
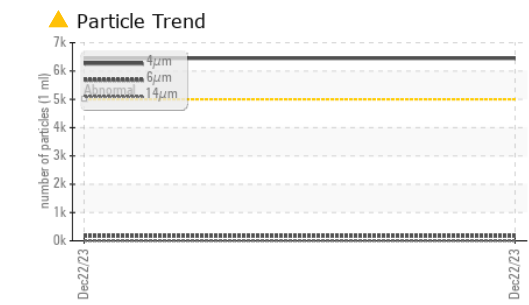
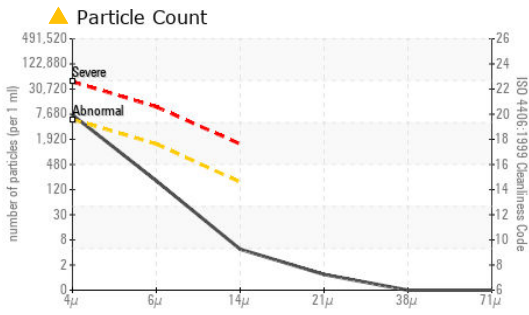
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>15	6	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.05	0.003	---	---
ppm Water	ppm	ASTM D6304	>500	28	---	---
Particles >4µm		ASTM D7647	>5000	▲ 6449	---	---
Particles >6µm		ASTM D7647	>1300	172	---	---
Particles >14µm		ASTM D7647	>160	4	---	---
Particles >21µm		ASTM D7647	>40	1	---	---
Particles >38µm		ASTM D7647	>10	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/15/9	---	---
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	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		74	---	---
Calcium	ppm	ASTM D5185m		70	---	---
Phosphorus	ppm	ASTM D5185m	425	286	---	---
Zinc	ppm	ASTM D5185m	500	362	---	---
Sulfur	ppm	ASTM D5185m	1900	1391	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.34	---	---
Visc @ 40°C	cSt	ASTM D445	67.4	65.2	---	---
Visc @ 100°C	cSt	ASTM D445	8.8	8.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270	102	97	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001277 **Received** : 08 Jan 2024
Lab Number : 06054901 **Diagnosed** : 10 Jan 2024
Unique Number : 10820850 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

JAMAK FABRICATION
 1401 NORTH BOWIE DRIVE
 WEATHERFORD, TX
 US 76086
 Contact: LARRY NORRIS
 lano@jamak.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: