



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
EMPE
Machine Id
P210-10-1029 (S/N V605)
Component
Hydraulic System
Fluid
TULCO LUBSOIL SUPER HYDRAULIC AW 68 (200 GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO5002460	---	---
Sample Date		Client Info		10 Nov 2023	---	---
Machine Age	hrs	Client Info		5487	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

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	16	---	---
Tin	ppm	ASTM D5185m	>20	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

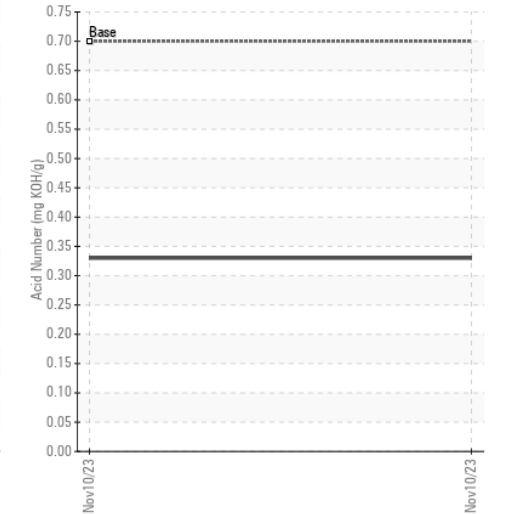
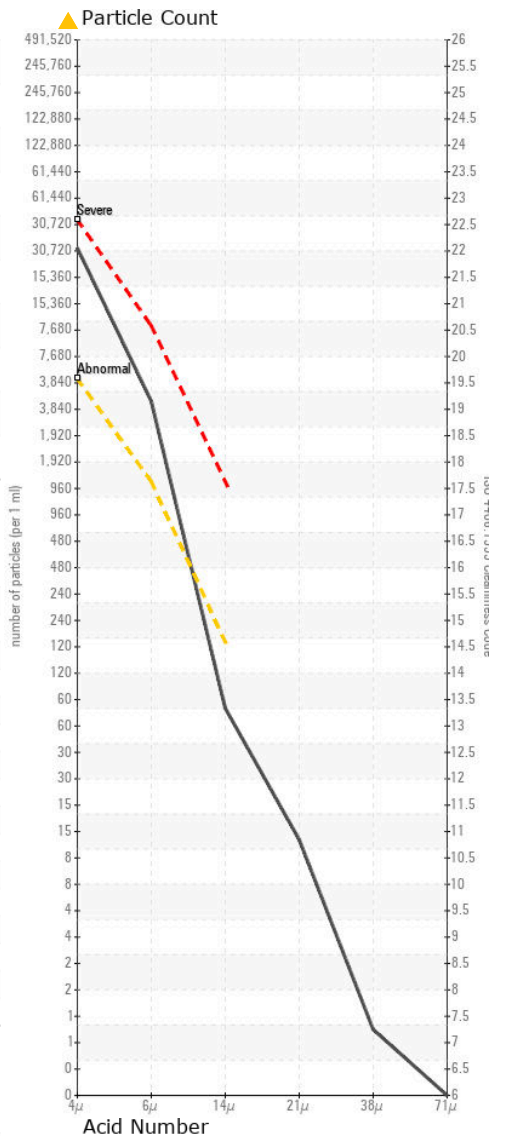
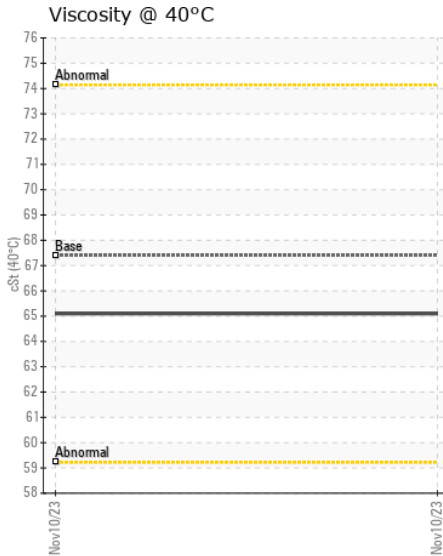
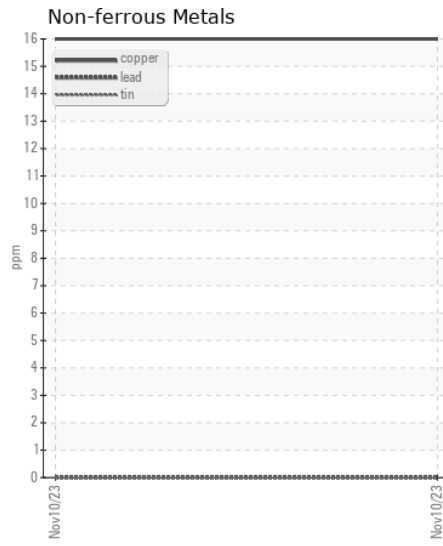
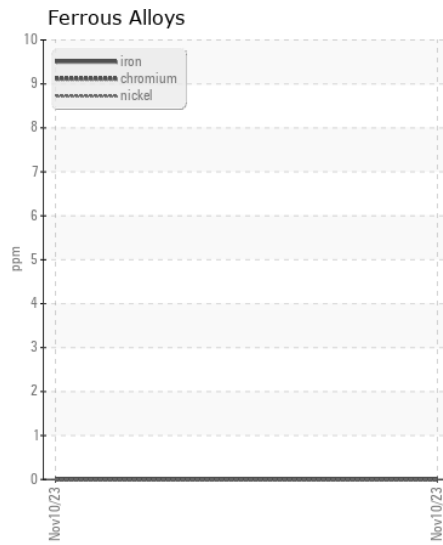
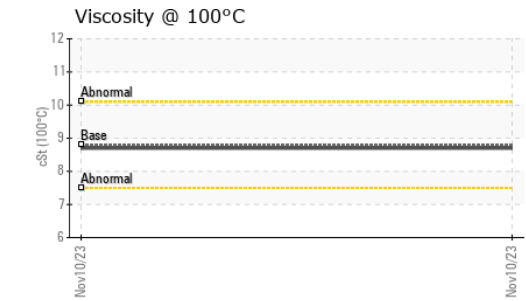
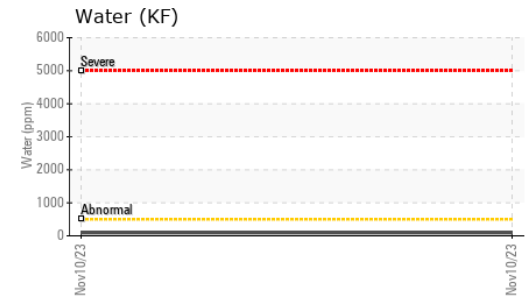
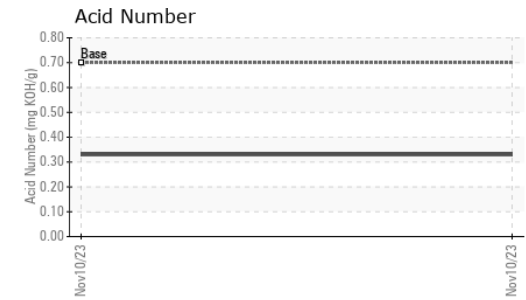
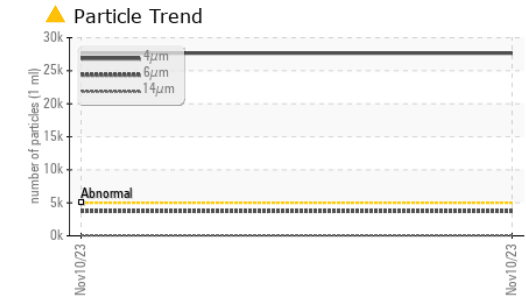
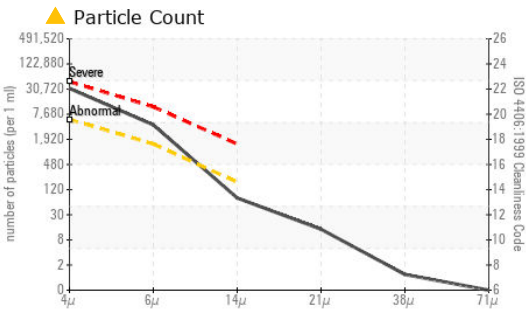
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Silicon	ppm	ASTM D5185m	>15	7	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water	%	ASTM D6304	>0.05	0.009	---	---
ppm Water	ppm	ASTM D6304	>500	93	---	---
Particles >4µm		ASTM D7647	>5000	▲ 27659	---	---
Particles >6µm		ASTM D7647	>1300	▲ 3722	---	---
Particles >14µm		ASTM D7647	>160	67	---	---
Particles >21µm		ASTM D7647	>40	12	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/19/13	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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		83	---	---
Calcium	ppm	ASTM D5185m		70	---	---
Phosphorus	ppm	ASTM D5185m	425	302	---	---
Zinc	ppm	ASTM D5185m	500	391	---	---
Sulfur	ppm	ASTM D5185m	1900	1693	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.33	---	---
Visc @ 40°C	cSt	ASTM D445	67.4	65.1	---	---
Visc @ 100°C	cSt	ASTM D445	8.8	8.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270	102	105	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : TO5002460 Recieved : 15 Dec 2023
 Lab Number : 06036083 Diagnosed : 18 Dec 2023
 Unique Number : 10791312 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: