



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
EMPE
Machine Id
P210-14-1033 (S/N V610)
Component
Hydraulic System
Fluid
TULCO LUBSOIL SUPER HYDRAULIC AW 68 (200 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO5002464	---	---
Sample Date		Client Info		04 Aug 2023	---	---
Machine Age	hrs	Client Info		4805	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	2	---	---
Chromium	ppm	ASTM D5185m	>20	0	---	---
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	4	---	---
Copper	ppm	ASTM D5185m	>20	9	---	---
Tin	ppm	ASTM D5185m	>20	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

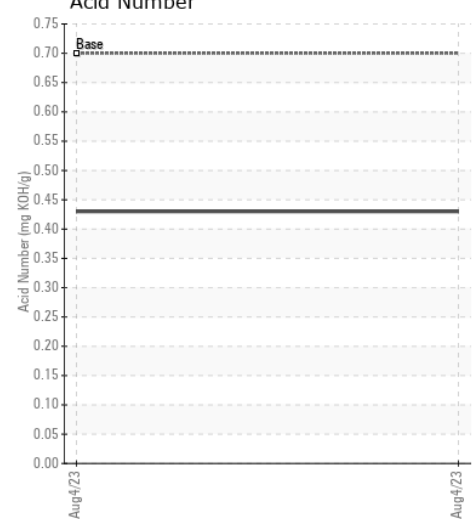
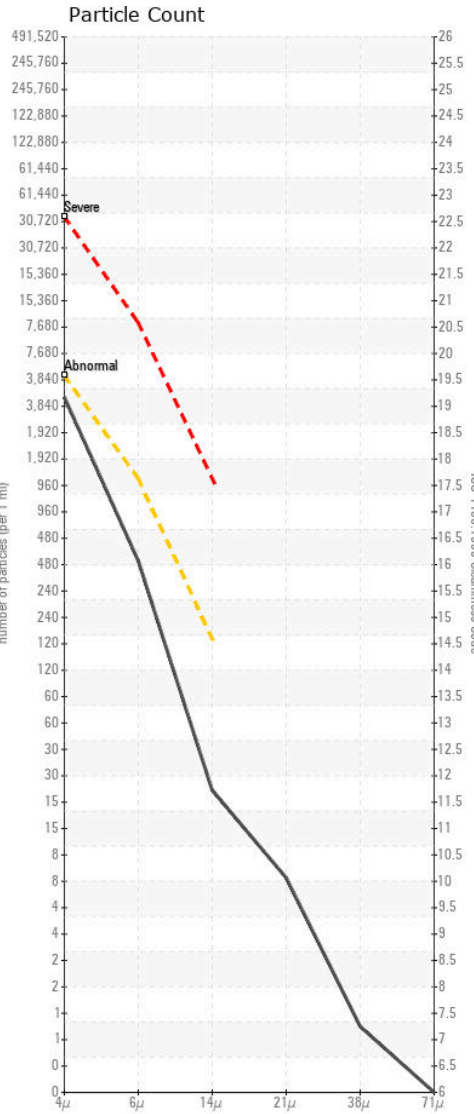
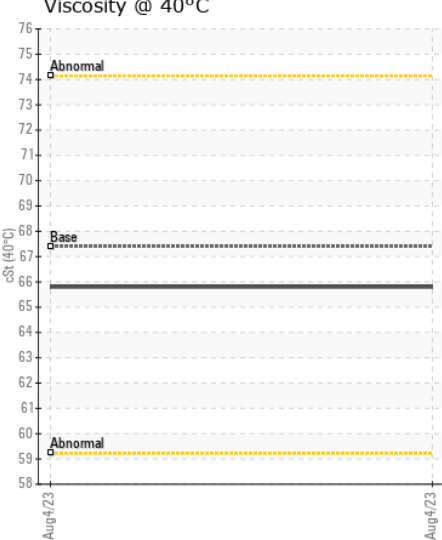
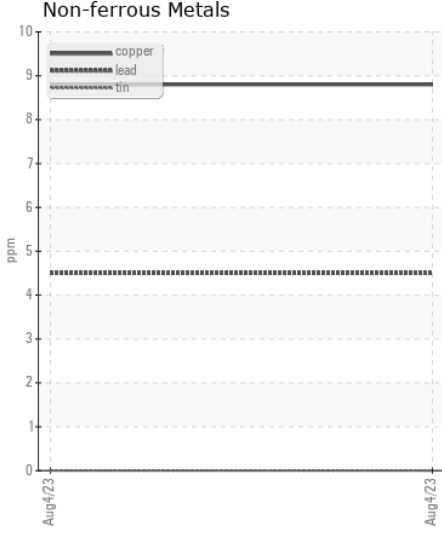
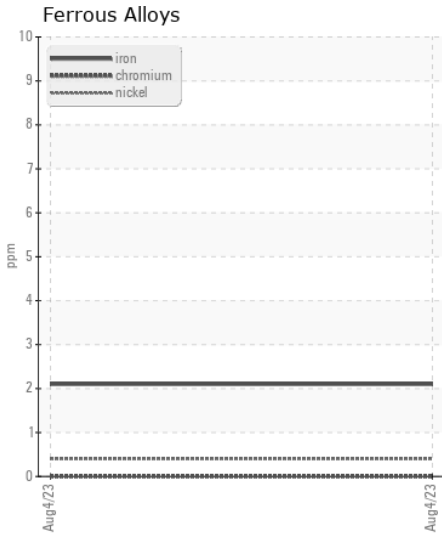
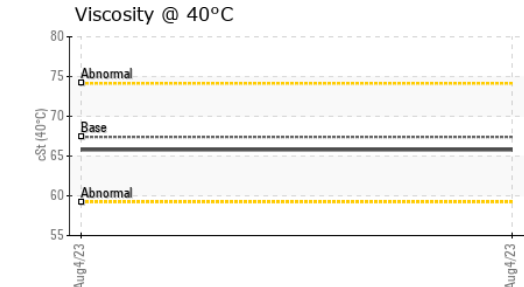
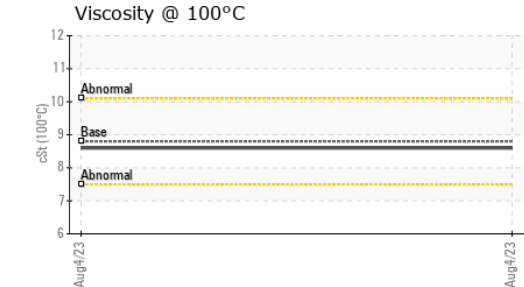
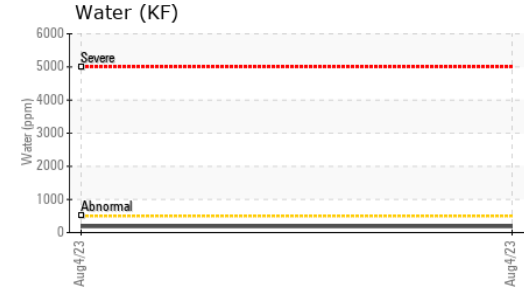
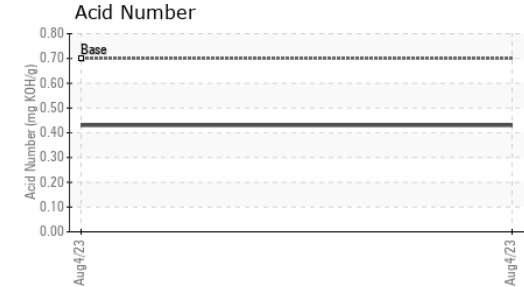
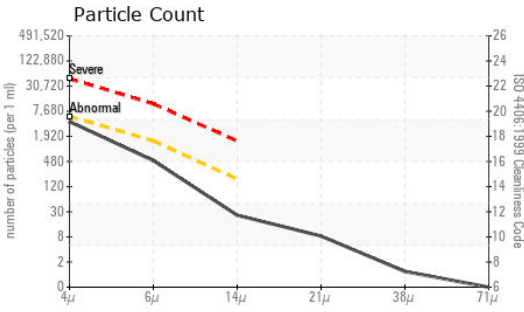
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>15	11	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water	%	ASTM D6304	>0.05	0.018	---	---
ppm Water	ppm	ASTM D6304	>500	185	---	---
Particles >4µm		ASTM D7647	>5000	3779	---	---
Particles >6µm		ASTM D7647	>1300	443	---	---
Particles >14µm		ASTM D7647	>160	22	---	---
Particles >21µm		ASTM D7647	>40	7	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12	---	---
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		<1	---	---
Magnesium	ppm	ASTM D5185m		48	---	---
Calcium	ppm	ASTM D5185m		43	---	---
Phosphorus	ppm	ASTM D5185m	425	323	---	---
Zinc	ppm	ASTM D5185m	500	391	---	---
Sulfur	ppm	ASTM D5185m	1900	1603	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.43	---	---
Visc @ 40°C	cSt	ASTM D445	67.4	65.8	---	---
Visc @ 100°C	cSt	ASTM D445	8.8	8.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270	102	101	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO5002464 **Received** : 15 Dec 2023
Lab Number : 06036078 **Diagnosed** : 18 Dec 2023
Unique Number : 10791307 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

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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)