

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**EMPW**  
 Machine Id  
**260-72-1049 (S/N 820366)**  
 Component  
**Hydraulic System**  
 Fluid  
**TULCO LUBSOIL SUPER HYDRAULIC AW 68 (140 GAL)**

**DIAGNOSIS**

**Recommendation**  
 Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

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

**SAMPLE INFORMATION**    method    limit/base    current    history1    history2

Sample Number	Client Info		<b>TO50001280</b>	---	---
Sample Date	Client Info		<b>08 Mar 2024</b>	---	---
Machine Age	hrs	Client Info	<b>6947</b>	---	---
Oil Age	hrs	Client Info	<b>6947</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

**WEAR METALS**    method    limit/base    current    history1    history2

Iron	ppm	ASTM D5185m	>20	<b>12</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>20	<b>20</b>	---	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

**ADDITIVES**    method    limit/base    current    history1    history2

Boron	ppm	ASTM D5185m		<b>0</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>69</b>	---	---
Calcium	ppm	ASTM D5185m		<b>107</b>	---	---
Phosphorus	ppm	ASTM D5185m	425	<b>319</b>	---	---
Zinc	ppm	ASTM D5185m	500	<b>368</b>	---	---
Sulfur	ppm	ASTM D5185m	1900	<b>4643</b>	---	---

**CONTAMINANTS**    method    limit/base    current    history1    history2

Silicon	ppm	ASTM D5185m	>15	<b>3</b>	---	---
Sodium	ppm	ASTM D5185m		<b>1</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Water	%	ASTM D6304	>0.05	<b>0.004</b>	---	---
ppm Water	ppm	ASTM D6304	>500	<b>41</b>	---	---

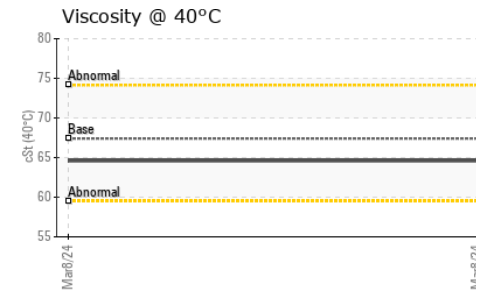
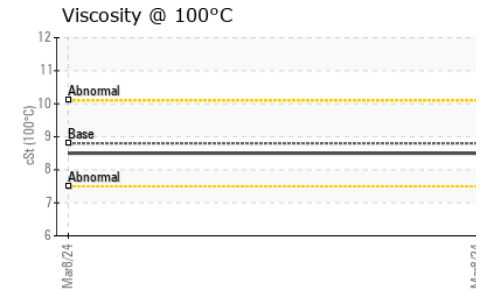
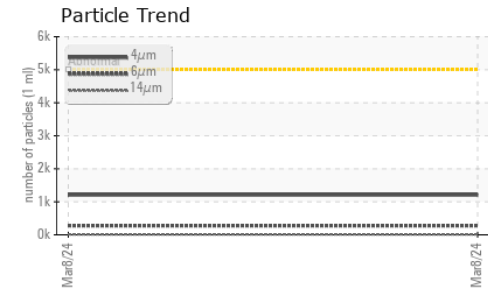
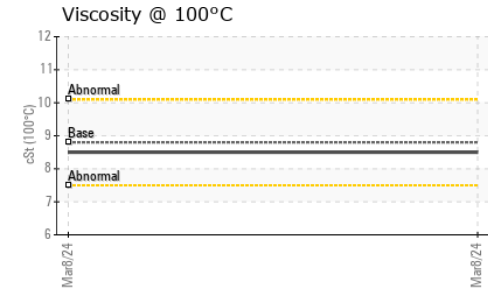
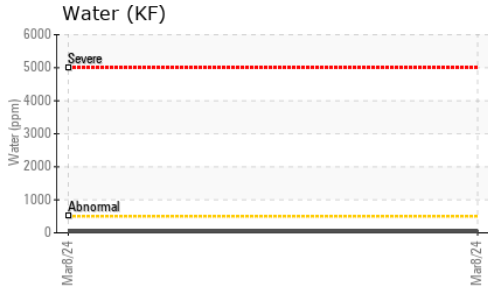
**FLUID CLEANLINESS**    method    limit/base    current    history1    history2

Particles >4µm		ASTM D7647	>5000	<b>1208</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>277</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>13</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>2</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/15/11</b>	---	---

**FLUID DEGRADATION**    method    limit/base    current    history1    history2

Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	<b>0.398</b>	---	---
------------------	----------	------------	-----	--------------	-----	-----

# OIL ANALYSIS REPORT



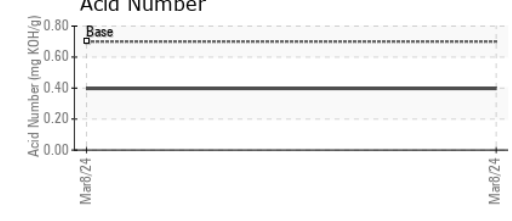
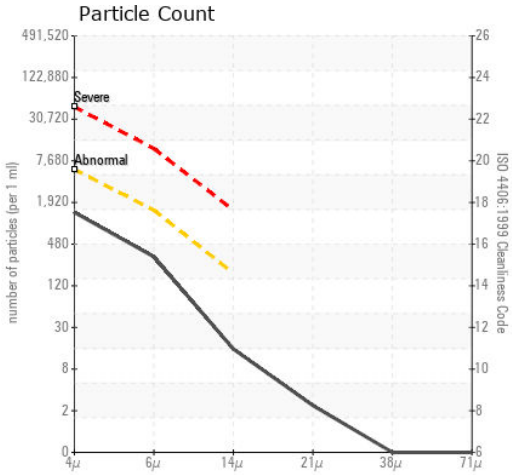
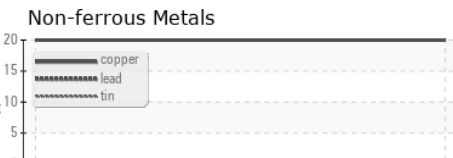
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	67.4	<b>64.6</b>	---	---
Visc @ 100°C	cSt	ASTM D445	8.8	<b>8.5</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270	102	<b>101</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color		no image	no image
Bottom		no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50001280 **Received** : 21 Mar 2024  
**Lab Number** : **06124921** **Tested** : 22 Mar 2024  
**Unique Number** : 10939072 **Diagnosed** : 24 Mar 2024 - Don Baldrige  
**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)