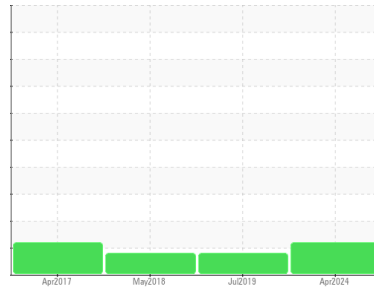


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**TKS PRESS 6 FOLDER**

Component  
**Hydraulic System**

Fluid  
**TULCO LUBSOIL SUPER HYDRAULIC AW 68 (50 GAL)**

**DIAGNOSIS**

**Recommendation**

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

**Wear**

All component wear rates are normal.

**Contamination**

There is a high amount of silt (particulates < 14 microns in size) present 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>TO50000782</b>	TO5000411	TO5010044
Sample Date	Client Info			<b>17 Apr 2024</b>	23 Jul 2019	14 May 2018
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>18</b>	18	20
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185m	>10	<b>1</b>	1	1
Copper	ppm	ASTM D5185m	>75	<b>12</b>	11	12
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m		<b>---</b>	0	11
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

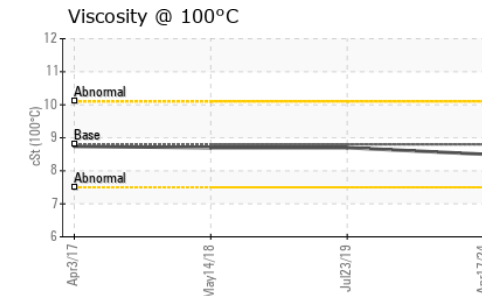
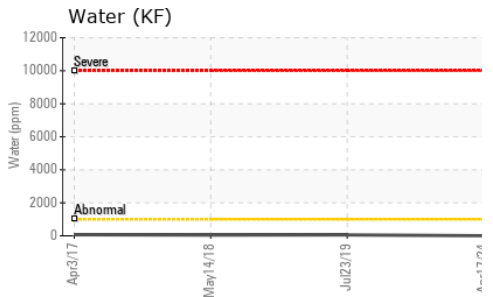
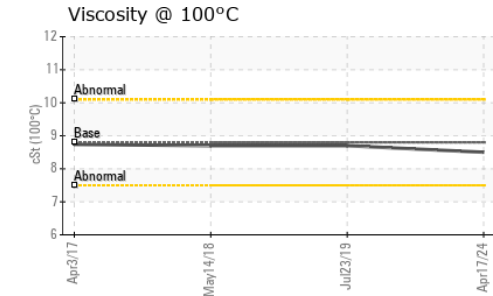
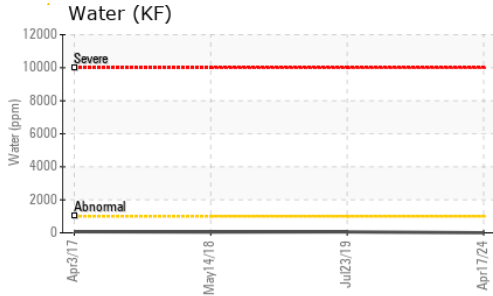
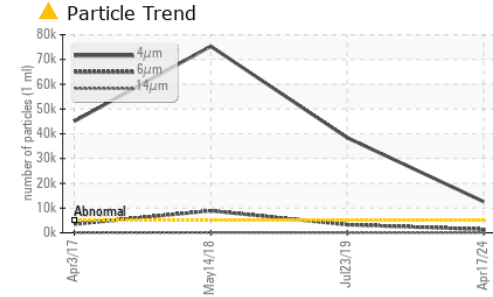
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	2	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>2</b>	4	5
Calcium	ppm	ASTM D5185m		<b>2</b>	2	3
Phosphorus	ppm	ASTM D5185m	425	<b>143</b>	147	163
Zinc	ppm	ASTM D5185m	500	<b>126</b>	88	101
Sulfur	ppm	ASTM D5185m	1900	<b>5848</b>	6047	3217

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>15</b>	15	16
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	<1
Water	%	ASTM D6304	>0.1	<b>0.00</b>	0.006	0.005
ppm Water	ppm	ASTM D6304	>1000	<b>0</b>	60	50

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>▲ 12597</b>	▲ 38401	▲ 75310
Particles >6µm		ASTM D7647	>1300	<b>● 1391</b>	▲ 3279	▲ 8891
Particles >14µm		ASTM D7647	>160	<b>36</b>	23	78
Particles >21µm		ASTM D7647	>40	<b>11</b>	5	21
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	6
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	5
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/18/12</b>	▲ 22/19/12	▲ 23/20/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	<b>0.32</b>	0.290	0.333

# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.4	65.5	66.08
Visc @ 100°C	cSt	ASTM D445	8.8	8.7	8.7
Viscosity Index (VI)	Scale	ASTM D2270	102	104	103

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50000782 **Received** : 22 Apr 2024  
**Lab Number** : 06155904 **Tested** : 23 Apr 2024  
**Unique Number** : 10991327 **Diagnosed** : 24 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, VI )

**DALLAS MORNING NEWS**  
 3900 W PLANO PKWY  
 PLANO, TX  
 US 75075  
 Contact: KENNY CLARK  
 kclark@dallasnews.com  
 T: (214)977-6929  
 F: (214)977-6888

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)