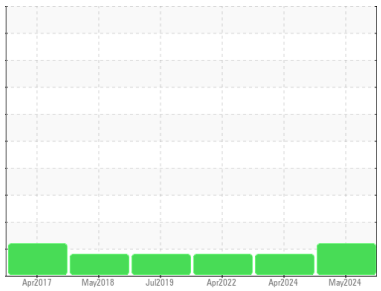
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
TKS PRESS 3 UNIT 8
Component
Hydraulic System
Fluid
TULCO LUBSOIL SUPER HYDRAULIC AW 68 (50 GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. 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		**TO50000991**	TO50000875	TO5000734
Sample Date		Client Info		**09 May 2024**	17 Apr 2024	20 Apr 2022
Machine Age	yrs	Client Info		**1908**	0	0
Oil Age	yrs	Client Info		**1**	0	3
Oil Changed		Client Info		**Filtered**	N/A	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**26**	---	---
Iron	ppm	ASTM D5185m	>20	**22**	17	22
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**<1**	<1	1
Lead	ppm	ASTM D5185m	>10	**<1**	2	2
Copper	ppm	ASTM D5185m	>75	**26**	23	22
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	<1
Manganese	ppm	ASTM D5185m		**1**	<1	<1
Magnesium	ppm	ASTM D5185m		**2**	3	4
Calcium	ppm	ASTM D5185m		**5**	3	1
Phosphorus	ppm	ASTM D5185m	425	**164**	146	164
Zinc	ppm	ASTM D5185m	500	**120**	121	145
Sulfur	ppm	ASTM D5185m	1900	**5727**	5576	3616

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**15**	12	14
Sodium	ppm	ASTM D5185m		**3**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**0**	1	3
Water	%	ASTM D6304	>0.1	**0.001**	0.00	0.006
ppm Water	ppm	ASTM D6304	>1000	**4**	0	69.1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **13415**	▲ 14134	▲ 26704
Particles >6µm		ASTM D7647	>1300	● **1315**	772	● 1970
Particles >14µm		ASTM D7647	>160	**54**	10	18
Particles >21µm		ASTM D7647	>40	**20**	3	4
Particles >38µm		ASTM D7647	>10	**2**	0	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/18/13**	▲ 21/17/10	▲ 22/18/11

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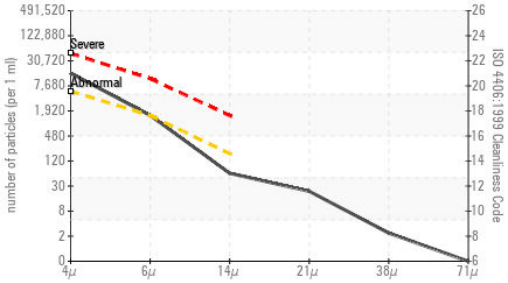
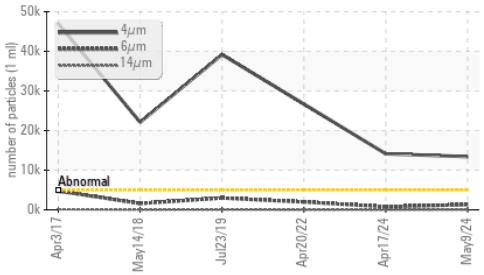
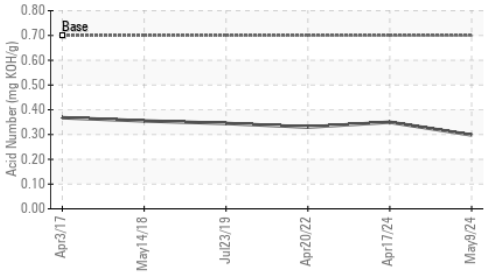
Particle Count



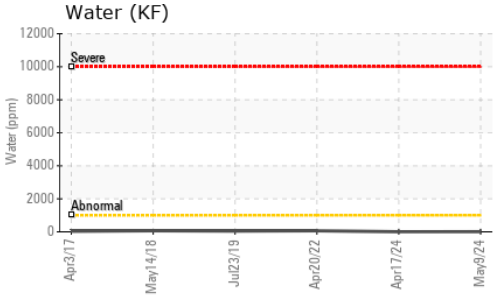
Particle Trend



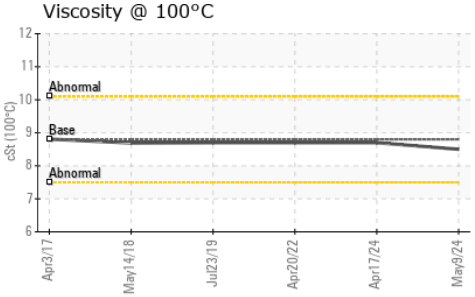
Acid Number



Water (KF)



Viscosity @ 100°C



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	**0.298**	0.35	0.33

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.4	**66.4**	66.0	66.3
Visc @ 100°C	cSt	ASTM D445	8.8	**8.5**	8.7	8.7
Viscosity Index (VI)	Scale	ASTM D2270	102	**97**	103	102

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50000991 **Received** : 13 May 2024
Lab Number : 06177488 **Tested** : 21 May 2024
Unique Number : 11023541 **Diagnosed** : 21 May 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI)

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)

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Report Id: DALPLATO [WUSCAR] 06177488 (Generated: 05/21/2024 17:12:45) Rev: 1

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