

## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

### Machine Id **TKS PRESS 5 UNIT 8**

Component Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC AW 68 (50 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### 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.

#### Fluid Condition

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

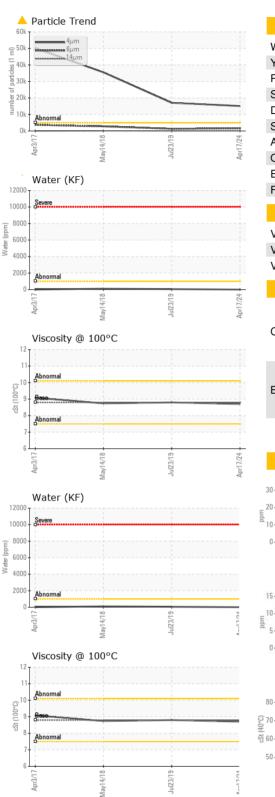
	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50000792	TO5000417	TO5010006
Sample Date		Client Info		17 Apr 2024	23 Jul 2019	14 May 2018
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	18	12	21
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	1
Lead	ppm	ASTM D5185m	>10	1	<1	1
Copper	ppm	ASTM D5185m	>75	13	6	10
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	<1
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	4	5
Calcium	ppm	ASTM D5185m		2	1	3
Phosphorus	ppm	ASTM D5185m	425	147	146	186
Zinc	ppm	ASTM D5185m	500	132	63	127
Sulfur	ppm	ASTM D5185m	1900	5363	6164	3069
CONTAMINANTS		ing a bla a sl				
		method	limit/base	current	history1	history2
		ASTM D5185m		current 13	history1 9	history2 13
Silicon	ppm ppm					
Silicon Sodium	ppm ppm	ASTM D5185m	>20	13	9	13
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	13 <1 <1	9 1 <1	13 1 <1
Silicon Sodium Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m	>20 >20	13 <1	9	13 1
Silicon Sodium Potassium Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>20 >20 >0.1	13 <1 <1 0.00	9 1 <1 0.006	13 1 <1 0.010
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>20 >20 >0.1 >1000	13 <1 <1 0.00 0	9 1 <1 0.006 60	13 1 <1 0.010 100
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>20 >20 >0.1 >1000 limit/base	13 <1 <1 0.00 0 current	9 1 <1 0.006 60 history1	13 1 <1 0.010 100 history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000	13 <1 <1 0.00 0 <u>current</u> ▲ 15128	9 1 <1 0.006 60 history1 ▲ 17036	13 1 <1 0.010 100 history2 ▲ 35517
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 <b>method</b> ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000 >1300	13 <1 <1 0.00 0 <u>current</u> ▲ 15128 ● 1588 47	9 1 <1 0.006 60 history1 ▲ 17036 ● 1320	13 1 <1 0.010 100 history2 ▲ 35517 ▲ 2805
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000 >1300 >160	13 <1 <1 0.00 0 <u>current</u> ▲ 15128 ● 1588	9 1 <1 0.006 60 history1 ▲ 17036 ■ 1320 14	13 1 <1 0.010 100 history2 ▲ 35517 ▲ 2805 111
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 <b>Method</b> ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000 >1300 >160 >40	13 <1 <1 0.00 0 <u>current</u> ▲ 15128 ● 1588 47 10 0	9 1 <1 0.006 60 history1 ▲ 17036 1320 14 2	13 1 <1 0.010 100 history2 ▲ 35517 ▲ 2805 111 39
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000 >1300 >160 >40 >10	13 <1 <1 0.00 0 <u>current</u> ▲ 15128 ● 1588 47 10	9 1 <1 0.006 60 history1 ▲ 17036 ■ 1320 14 2 0	13 1 <1 0.010 100 history2 ▲ 35517 ▲ 2805 111 39 9
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm ESS	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000 >1300 >160 >40 >10 >3	13 <1 <1 0.00 0 current ▲ 15128 ● 1588 47 10 0 0	9 1 <1 0.006 60 history1 ▲ 17036 1320 14 2 0 0 0	13 1 <1 0.010 100 history2 ▲ 35517 ▲ 2805 111 39 9 2

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Contact/Location: KENNY CLARK - DALPLATO

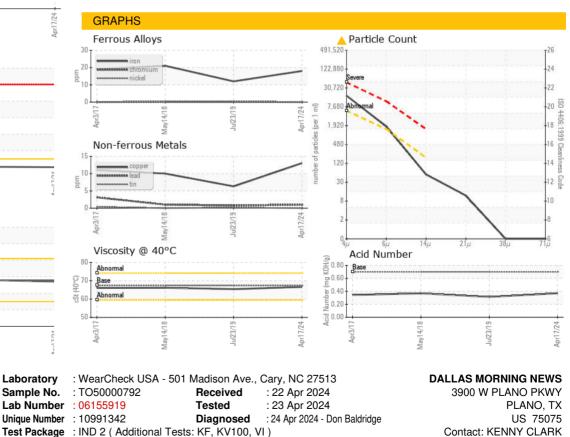


# **OIL ANALYSIS REPORT**



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	LIGHT	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.4	66.6	65.4	66.13
Visc @ 100°C	cSt	ASTM D445	8.8	8.7	8.8	8.74
Viscosity Index (VI)	Scale	ASTM D2270	102	102	107	104
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color				·		

Bottom



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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Certificate 12367

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