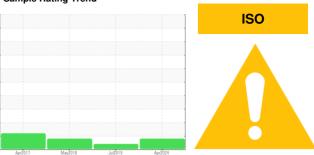


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

TKS PRESS 5 UNIT 11-12

Component **Hydraulic System**

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 < 6 microns in size) present in the oil.

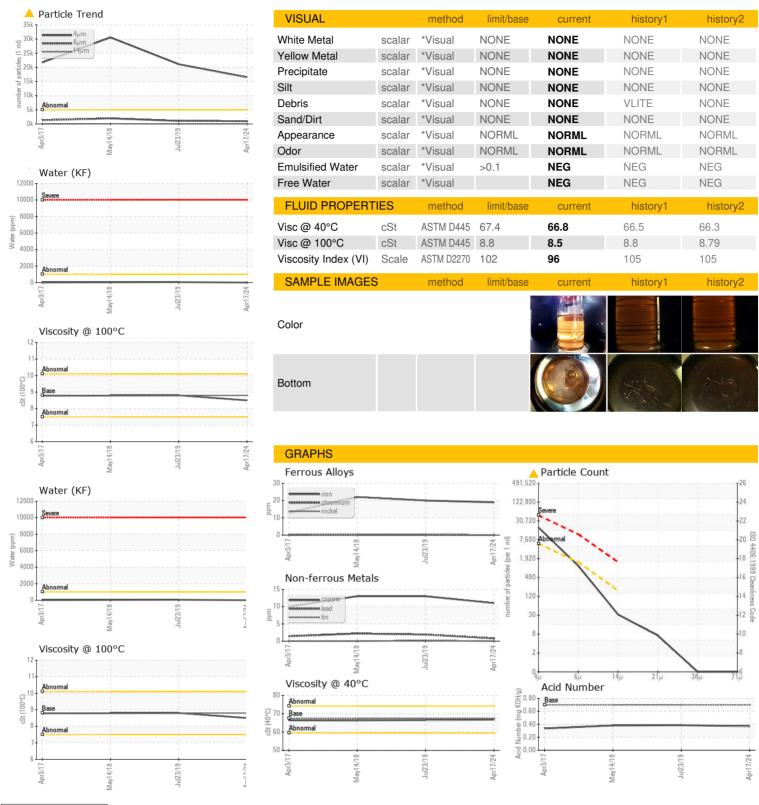
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50000793	TO5000420	TO5010009
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	19	20	22
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
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	2	2
Copper	ppm	ASTM D5185m	>75	11	13	13
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	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		2	5	6
Calcium	ppm	ASTM D5185m		3	3	4
Phosphorus	ppm	ASTM D5185m	425	166	189	204
Zinc	ppm	ASTM D5185m	500	173	180	186
Sulfur	ppm	ASTM D5185m	1900	5634	5509	2950
CONTAMINANTS						
3311.7 ((1)) (1)		method	limit/base	current	history1	history2
	ppm	method ASTM D5185m	limit/base >20	current 13	history1	history2
Silicon						
Silicon Sodium	ppm	ASTM D5185m		13	15	16
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	13 <1	15 2	16 2
Silicon Sodium Potassium Water	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	13 <1 0	15 2 1	16 2 2
Silicon Sodium Potassium Water	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>20 >20 >0.1	13 <1 0 0.00	15 2 1 0.006	16 2 2 0.004
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>20 >20 >0.1 >1000	13 <1 0 0.00	15 2 1 0.006 60	16 2 2 0.004 40
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>20 >20 >0.1 >1000 limit/base >5000	13 <1 0 0.00 0	15 2 1 0.006 60 history1	16 2 2 0.004 40 history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000	13 <1 0 0.00 0 current 16482 994 28	15 2 1 0.006 60 history1 21092	16 2 2 0.004 40 history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000 >1300 >160	13 <1 0 0.00 0 current 16482 994	15 2 1 0.006 60 history1 21092 1090	16 2 2 0.004 40 history2 ▲ 30556 1977
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000 >1300 >160	13 <1 0 0.00 0 current 16482 994 28	15 2 1 0.006 60 history1 21092 1090 11	16 2 2 0.004 40 history2 ▲ 30556 1977 80
Silicon Sodium Potassium Water ppm Water	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D6304 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 0 0.00 0 current 16482 994 28 6	15 2 1 0.006 60 history1 21092 1090 11 2	16 2 2 0.004 40 history2 ▲ 30556 1977 80 32
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647	>20 >20 >0.1 >1000 limit/base >5000 >1300 >160 >40 >10	13 <1 0 0.00 0 current 16482 994 28 6 0	15 2 1 0.006 60 history1 21092 1090 11 2 0	16 2 2 0.004 40 history2 ▲ 30556 1977 80 32 8



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06155896

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TO50000793 Unique Number : 10991319

Received : 22 Apr 2024 **Tested** : 23 Apr 2024 Diagnosed : 24 Apr 2024 - Don Baldridge

Test Package : IND 2 (Additional Tests: KF, KV100, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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PLANO, TX US 75075

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (214)977-6888

Contact/Location: KENNY CLARK - DALPLATO