

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**WEAR** 

TKS PRESS 6 UNIT 10

Component Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC AW 68 (50 GAL)

### DIAGNOSIS

#### A Recommendation

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

### 🔺 Wear

An increase in the iron level is noted.

## 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 INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO5000408	TO5010040	TO5007947
Sample Date		Client Info		23 Jul 2019	14 May 2018	03 Apr 2017
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	<b>A</b> 33	22	<u> </u>
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	4
Lead	ppm	ASTM D5185m	>10	2	2	5
Copper	ppm	ASTM D5185m	>75	15	11	15
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m		0	1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		5	6	6
Calcium	ppm	ASTM D5185m		3	3	2
Phosphorus	ppm	ASTM D5185m	425	150	163	183
Zinc	ppm	ASTM D5185m	500	110	109	139
Sulfur	ppm	ASTM D5185m	1900	5627	3145	4134
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	21	18	<u> </u>
Sodium	ppm	ASTM D5185m		5	2	1
Potassium	ppm	ASTM D5185m	>20	8	<1	0
Water	%	ASTM D6304	>0.1	0.007	0.006	0.003
ppm Water	ppm	ASTM D6304	>1000	70	60	30
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	<u> </u>	<b>2</b> 9463
Particles >6µm		ASTM D7647	>1300	<u> </u>	1646	1701
Particles >14µm		ASTM D7647	>160	23	87	49
Particles >21µm		ASTM D7647	>40	3	28	18
Particles >38µm		ASTM D7647	>10	0	7	10
Particles >71µm		ASTM D7647	>3	0	2	3
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 23/18/12	22/18/14	A 22/18/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.7	0.253	0.312	0 294

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Contact/Location: KENNY CLARK - DALPLATO



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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	VLITE
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
	cSt	ASTM D445	67.4	66.3	65.99	66.38
Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445	67.4 8.8	66.3 8.7	65.99 8.76	66.38 8.81
Visc @ 40°C Visc @ 100°C Viscosity Index (VI)	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	67.4 8.8 102	66.3 8.7 102	65.99 8.76 105	66.38 8.81 105
Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAGES	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270 method	67.4 8.8 102 limit/base	66.3 8.7 102 current	65.99 8.76 105 history1	66.38 8.81 105 history2
Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAGES Color	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270 method	67.4 8.8 102 limit/base	66.3 8.7 102 current	65.99 8.76 105 history1	66.38 8.81 105 history2

Bottom



Unique Number : 8674066 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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Certificate 12367

Laboratory

Sample No.

Contact/Location: KENNY CLARK - DALPLATO

Contact: KENNY CLARK

kclark@dallasnews.com

T: (214)977-6929

F: (214)977-6888