

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

TKS PRESS 1 UNIT 9

Component Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC AW 68 (50 GAL)

DIAGNOSIS

A 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.

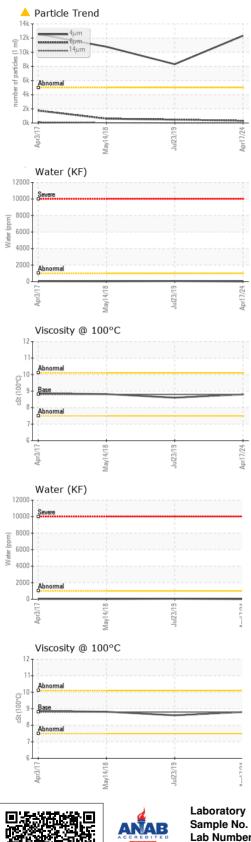
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50000870	TO5000398	TO5010072
Sample Date		Client Info		17 Apr 2024	23 Jul 2019	14 May 2018
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	16	15	15
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<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	3	6	6
Copper	ppm		>75	12	10	11
Tin	ppm		>10	0	0	<1
Antimony	ppm	ASTM D5185m	210		0	4
Vanadium	ppm	ASTM D5185m		<1	0	4
Cadmium	ppm	ASTM D5185m		0	<1	<1
	ppm			-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	<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		3	9	11
Calcium	ppm	ASTM D5185m		4	8	9
Phosphorus	ppm	ASTM D5185m	425	171	224	234
Zinc	ppm	ASTM D5185m	500	182	227	229
Sulfur	ppm	ASTM D5185m	1900	5567	5074	2712
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	17	24	22
Sodium	ppm	ASTM D5185m		<1	2	2
Potassium	ppm	ASTM D5185m	>20	2	1	2
Water	%	ASTM D6304	>0.1	0.001	0.006	0.003
ppm Water	ppm	ASTM D6304	>1000	8	60	30
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	12328	8308	▲ 10773
Particles >6µm		ASTM D7647	>1300	317	473	607
Particles >14µm		ASTM D7647	>160	10	2	26
Particles >21µm		ASTM D7647	>40	3	0	15
Particles >38µm		ASTM D7647	>10	0	0	4
Particles >71µm		ASTM D7647		0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	21/15/10	20/16/9	▲ 21/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
		ASTM D8045	0.7		0.475	0.461
Acid Number (AN)	mg KOH/g	A0 HW D0040	0.7	0.37	0.470	0.401

Report Id: DALPLATO [WUSCAR] 06155909 (Generated: 04/24/2024 17:56:18) Rev: 1

Contact/Location: KENNY CLARK - DALPLATO

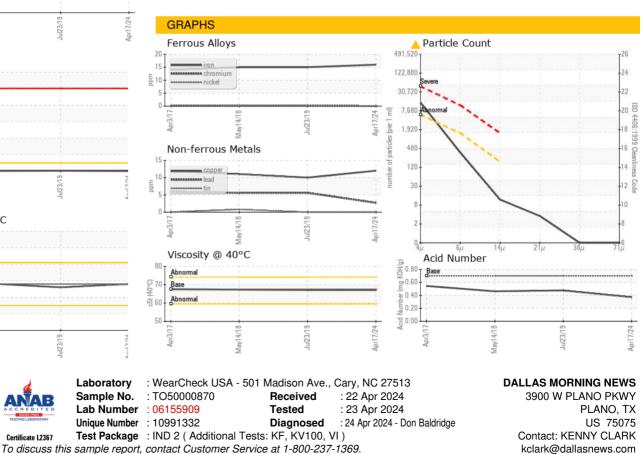


OIL ANALYSIS REPORT



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	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 PROPERT	IES	method	limit/base	current	history1	history2
					,	· · · · ·
Visc @ 40°C	cSt	ASTM D445	67.4	67.1	67.1	67.33
Visc @ 100°C	cSt	ASTM D445	8.8	8.8	8.6	8.82
Viscosity Index (VI)	Scale	ASTM D2270	102	103	98	103
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom



* - 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)

Report Id: DALPLATO [WUSCAR] 06155909 (Generated: 04/24/2024 17:56:18) Rev: 1

Certificate 12367

Contact/Location: KENNY CLARK - DALPLATO

T: (214)977-6929

F: (214)977-6888