

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

TKS PRESS 5 UNIT 1

Component Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC AW 68 (50 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

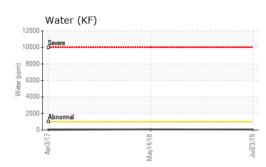
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO5000412	TO5010001	TO5007932
Sample Date		Client Info		23 Jul 2019	14 May 2018	03 Apr 2017
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	16	18	19
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	4	6	9
Lead	ppm	ASTM D5185m	>10	3	3	5
Copper	ppm	ASTM D5185m	>75	20	21	22
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m		0	0	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	<1	0
Molybdenum	ppm	ASTM D5185m		<1	1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		10	14	9
Calcium	ppm	ASTM D5185m		4	7	4
Phosphorus	ppm	ASTM D5185m	425	175	188	194
Zinc	ppm	ASTM D5185m	500	133	146	149
Sulfur	ppm	ASTM D5185m	1900	5507	2932	3940
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	19	18	A 23
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water	%	ASTM D6304	>0.1	0.006	0.008	0.003
ppm Water	ppm	ASTM D6304	>1000	60	80	30
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2588	▲ 30287	4 0429
Particles >6µm		ASTM D7647	>1300	301	630	641
Particles >14µm		ASTM D7647	>160	26	49	19
Particles >21µm		ASTM D7647	>40	7	16	9
Particles >38µm		ASTM D7647	>10	0	8	4
Particles >71µm		ASTM D7647	>3	0	2	3
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/15/12	▲ 22/18/13	▲ 23/18/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.335	0.342	0.346

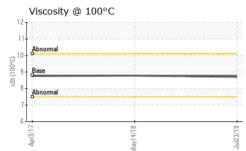
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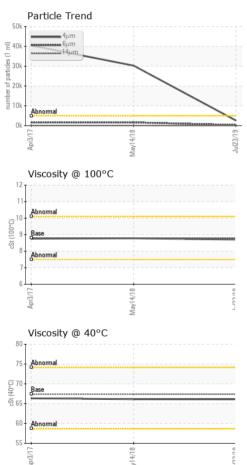
Contact/Location: KENNY CLARK - DALPLATO



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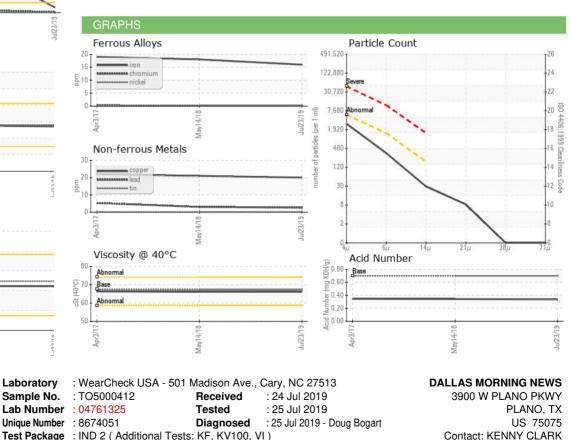






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	66.1	66.12	66.34
Visc @ 100°C	cSt	ASTM D445	8.8	8.7	8.78	8.76
Viscosity Index (VI)	Scale	ASTM D2270	102	103	105	104
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						P5-0
				Contraction of the		

Bottom



Certificate 12367 **Test Package** : IND 2 (Additional Tests: KF, KV100, 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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Contact/Location: KENNY CLARK - DALPLATO

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