

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

TULSA DIVISION - TO1 LUBSOIL SUP HYD AW 46 - ANCHOR STONE TANK

New (Unused) Oil

TULCO LUBSOIL SUPER HYDRAULIC AW 46 (--- QTS)





Recommendation

This is a baseline read-out on the submitted sample.

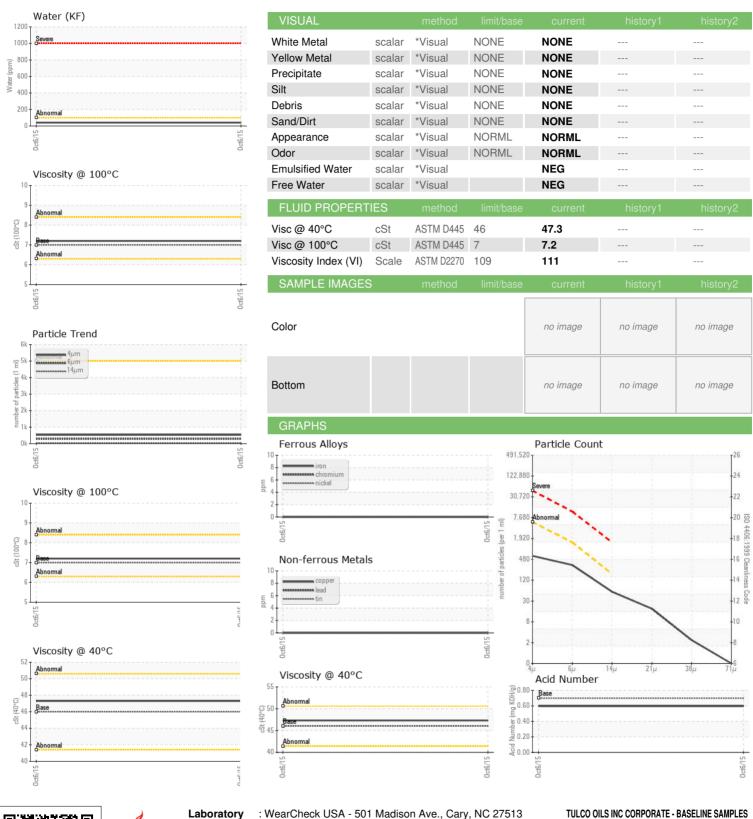
Contamination

The water content is negligible. There is no indication of any contamination in the component.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO1005088		
Sample Date		Client Info		06 Oct 2015		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>10	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	0		
Tin	ppm	ASTM D5185m	>10	0		
Antimony	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		171		
Phosphorus	ppm	ASTM D5185m	450	406		
Zinc	ppm	ASTM D5185m	540	489		
Sulfur	ppm	ASTM D5185m	1825	1710		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304		0.004		
ppm Water	ppm	ASTM D6304		40		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	531		
Particles >6µm		ASTM D7647	>1300	289		
Particles >14µm		ASTM D7647	>160	49		
Particles >21µm		ASTM D7647	>40	16		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/13		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma K∩U/a	VCTM DOUVE	7	0.506		



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Laboratory

Sample No.

: TO1005088 Lab Number : 03838319 Unique Number : 7163515

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 07 Oct 2015 : 08 Oct 2015 : 08 Oct 2015 - Doug Bogart Diagnosed Test Package : MOB 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

5240 EAST PINE TULSA, OK US 74115

Contact: DARRYL THOMPSON

Certificate 12367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: Contact/Location: DARRYL THOMPSON - TONEWOIL

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