

OIL ANALYSIS REPORT



Machine Id MM 76-2 Component Heat Transfer Fluid Fluid TULCO LUBSOIL ALPHASYN 1000 (4200 GAL)

DIAGNOSIS

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 fluid. 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 fluid is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10003234		
Sample Date		Client Info		02 Apr 2024		
Machine Age	yrs	Client Info		10		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.0601	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		18		
Iron	ppm	ASTM D5185m	>200	5		
Chromium	ppm	ASTM D5185m	>21	0		
Nickel	ppm	ASTM D5185m	>21	0		
Titanium	ppm	ASTM D5185m	>21	0		
Silver	ppm	ASTM D5185m	>21	0		
Aluminum	ppm	ASTM D5185m	>21	0		
Lead	ppm	ASTM D5185m	>21	0		
Copper	ppm	ASTM D5185m	>21	0		
Tin	ppm	ASTM D5185m	>21	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	0	0		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	0	0		
Zinc	ppm	ASTM D5185m	0	0		
Sulfur	ppm	ASTM D5185m	0	0		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m	>21	0		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3193		
Particles >6µm		ASTM D7647	>10240000	1739		
Particles >14µm		ASTM D7647	>10240000	296		
Particles >21µm		ASTM D7647	>2560000	100		
Particles >38µm		ASTM D7647	>640000	15		

ASTM D7647 >160000

ISO 4406 (c) >--/30/30

2

19/18/15

Particles >71µm

Oil Cleanliness



Abnorma

4 1 3.5

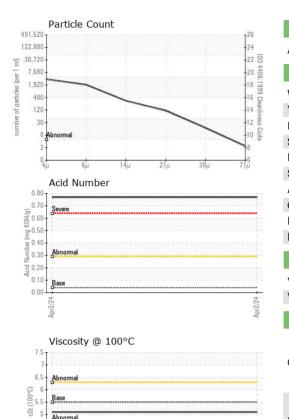
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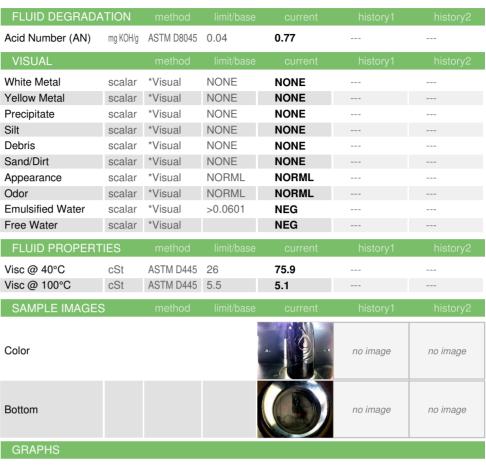
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PQ

Abnorma 100 50

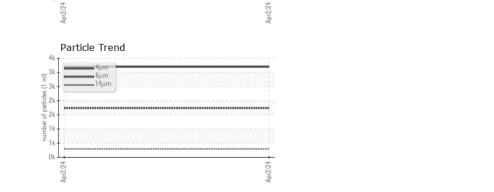
OIL ANALYSIS REPORT

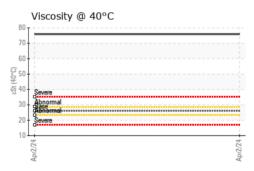






pr2/24





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 TULCO OILS INC (001-TULSA DIVISION) Sample No. : TO10003234 Received : 05 Apr 2024 5240 EAST PINE Lab Number : 06140245 Tested : 08 Apr 2024 TULSA, OK : 10 Apr 2024 - Jonathan Hester Unique Number : 10965053 Diagnosed US 74115 Test Package : IND 2 (Additional Tests: KV100, PQ, PrtCount, VI) Contact: DYLAN COPE Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dylancope@tulco.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (800)375-2347 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Contact/Location: DYLAN COPE - UCTULTUL