

OIL ANALYSIS REPORT



NORMAL





DE Samples - CAT LAB
CATERPILLAR 12H GRADER 6438 (S/N 8MN00572)

Diesel Engine

TULCO LUBSOIL CK-4 15W40 (--- 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 oil

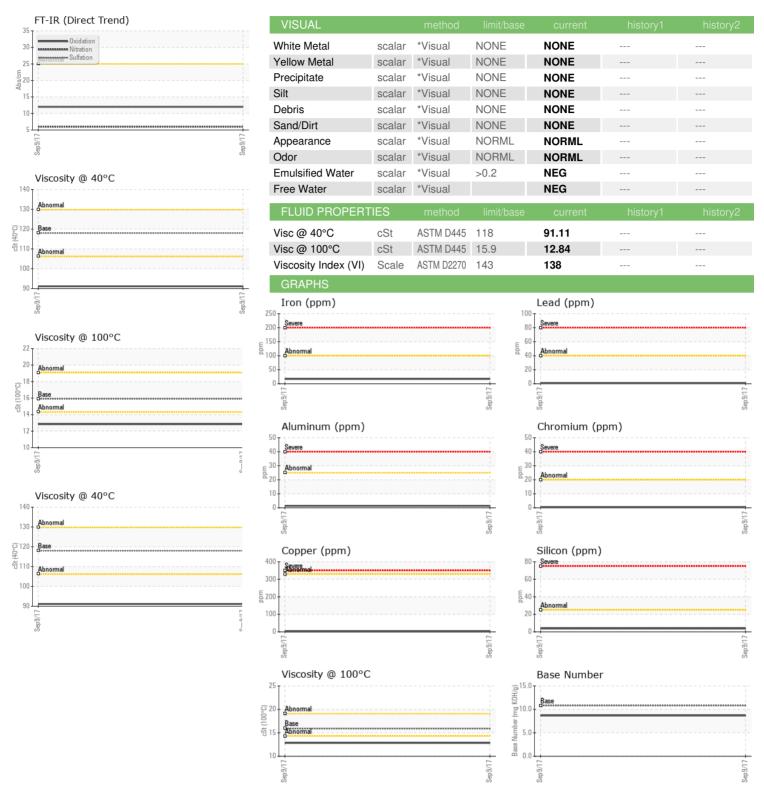
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ł 15W40 (GAL	-)			Sep2017		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO1005544		
Sample Date		Client Info		09 Sep 2017		
Machine Age	hrs	Client Info		13102		
Oil Age	hrs	Client Info		260		
Oil Changed	1110	Client Info		Changed		
Sample Status		Onorte iriio		NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
	N .		>5			
Fuel Water		WC Method		<1.0 NEG		
		WC Method	>0.2	NEG		
Glycol		WC Method				
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	17		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	1		
Lead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	<1		
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		44		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m	65	62		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	1060	835		
Calcium	ppm	ASTM D5185m	1140	1063		
Phosphorus	ppm	ASTM D5185m	1170	921		
Zinc	ppm	ASTM D5185m	1230	1075		
Sulfur	ppm	ASTM D5185m	3130	1618		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
		*ASTM D7844	>3	0.3		
Soot %	%	ASTW D7844	/0	0.0		
Soot % Nitration	% Abs/cm	*ASTM D7624	20	6.		
Nitration	Abs/cm Abs/.1mm	*ASTM D7624	limit/base	6.		
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		6. 12.		



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: TO1005544 Lab Number : 04305334 Unique Number : 7928872

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

Received **Tested** Diagnosed

: 15 Sep 2017 : 18 Sep 2017 : 18 Sep 2017 - Wes Davis

ANCHOR STONE TULSA ROCK TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE

TULSA, OK US 74137 Contact: MIKE SNYDER msnyder@anchorstoneco.com

 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : MOB 2 (Additional Tests: KV40, VI)

Report Id: ANCTUL [WUSCAR] 04305334 (Generated: 05/30/2024 11:59:04) Rev: 1

Contact/Location: MIKE SNYDER - ANCTUL

T: (417)850-9635