

## **OIL ANALYSIS REPORT**

#### Sampl

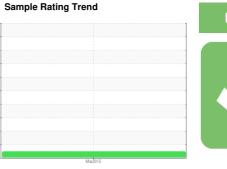
# NORMAL



CATERPILLAR 775D 6441 (S/N 8AS00350)
Component

Differential

TULCO LUBSOIL TO 430 (--- 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 component.

### **Fluid Condition**

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

Cample Number   Client Info   TO1004267       Client Info   19 Mar 2015       Client Info   28464       Client Info   28464       Client Info   0       Client Info   0       Client Info   O       Client Info   O       Client Info   O       Client Info   Not Changd       Client Info   NorMAL       Client Info	80 ( GAL)				Mar2015		
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Dit Age	Sample Number		Client Info		TO1004267		
Dil Age	Sample Date		Client Info		19 Mar 2015		
Client Info	Machine Age	hrs	Client Info		28464		
NORMAL	Oil Age	hrs	Client Info		0		
WEAR METALS         method         limit/base         current         history1         history1           PQ         ASTM D81844         14.0             Pron         ppm         ASTM D5185m         >500         8             Chromium         ppm         ASTM D5185m         >3         <1	Oil Changed		Client Info		Not Changd		
Page   ASTM D8184	Sample Status				NORMAL		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Chromium   ppm   ASTM D5185m   >3   <1	PQ		ASTM D8184		14.0		
Silver	ron	ppm	ASTM D5185m	>500	8		
Fitanium         ppm         ASTM D5185m         >2         <1	Chromium	ppm	ASTM D5185m	>3	<1		
Silver	Nickel	ppm	ASTM D5185m	>3	<1		
Aluminum	Γitanium	ppm	ASTM D5185m	>2	<1		
Dead	Silver	ppm	ASTM D5185m	>2	0		
Copper         ppm         ASTM D5185m         >103         2             Fin         ppm         ASTM D5185m         >5         0             Antimony         ppm         ASTM D5185m         0             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history1           ADDITIVES         method         limit/base         current         history1         history2           ADDITIVES         method         limit/base         current         history1         history2           ADDITIVES         method         limit/base         current         history2	Aluminum	ppm	ASTM D5185m	>30	1		
Antimony	_ead	ppm	ASTM D5185m	>13	<1		
Antimony ppm ASTM D5185m 0	Copper	ppm	ASTM D5185m	>103	2		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history           Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m         2             Molybdenum         ppm         ASTM D5185m         2             Manganese         ppm         ASTM D5185m         <1             Magnesium         ppm         ASTM D5185m         2454             Calcium         ppm         ASTM D5185m         757             Phosphorus         ppm         ASTM D5185m         853             Zinc         ppm         ASTM D5185m         4270             CONTAMINANTS         method         limit/base         current         history1         history1           Solicon         ppm         ASTM D5185m         >100         11		ppm	ASTM D5185m	>5	0		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         2             Manganese         ppm         ASTM D5185m         <1	Antimony	ppm	ASTM D5185m		0		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Soron   ppm   ASTM D5185m   2	Cadmium	ppm	ASTM D5185m		0		
Description	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         2             Manganese         ppm         ASTM D5185m         <1	Boron	ppm	ASTM D5185m		2		
Manganese         ppm         ASTM D5185m         <1             Magnesium         ppm         ASTM D5185m         10             Calcium         ppm         ASTM D5185m         2454             Phosphorus         ppm         ASTM D5185m         757             Zinc         ppm         ASTM D5185m         853             Sulfur         ppm         ASTM D5185m         4270             CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >100         11             Potassium         ppm         ASTM D5185m         >20         5	Barium	ppm	ASTM D5185m		0		
Magnesium         ppm         ASTM D5185m         10             Calcium         ppm         ASTM D5185m         2454             Phosphorus         ppm         ASTM D5185m         757             Zinc         ppm         ASTM D5185m         853             Sulfur         ppm         ASTM D5185m         4270             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >100         11             Godium         ppm         ASTM D5185m         <1	Molybdenum	ppm	ASTM D5185m		2		
Calcium         ppm         ASTM D5185m         2454             Phosphorus         ppm         ASTM D5185m         757             Zinc         ppm         ASTM D5185m         853             Sulfur         ppm         ASTM D5185m         4270             CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >100         11             Sodium         ppm         ASTM D5185m         <1	Manganese	ppm	ASTM D5185m		<1		
Phosphorus         ppm         ASTM D5185m         757             Zinc         ppm         ASTM D5185m         853             Sulfur         ppm         ASTM D5185m         4270             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >100         11             Sodium         ppm         ASTM D5185m         <1             Potassium         ppm         ASTM D5185m         >20         5	Magnesium	ppm	ASTM D5185m		10		
Zinc         ppm         ASTM D5185m         853             Sulfur         ppm         ASTM D5185m         4270             CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >100         11             Sodium         ppm         ASTM D5185m         <1	Calcium	ppm	ASTM D5185m		2454		
Sulfur         ppm         ASTM D5185m         4270             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >100         11             Sodium         ppm         ASTM D5185m         <1	Phosphorus	ppm	ASTM D5185m		757		
CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >100         11             Sodium         ppm         ASTM D5185m         <1	Zinc	ppm	ASTM D5185m				
Silicon         ppm         ASTM D5185m         >100         11             Sodium         ppm         ASTM D5185m         <1             Potassium         ppm         ASTM D5185m         >20         5	Sulfur	ppm	ASTM D5185m		4270		
Sodium         ppm         ASTM D5185m         <1             Potassium         ppm         ASTM D5185m         >20         5	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <b>5</b>	Silicon	ppm	ASTM D5185m	>100	11		
	Sodium	ppm	ASTM D5185m		<1		
FLUID DEGRADATION method limit/base current history1 history	otassium	ppm	ASTM D5185m	>20	5		
	FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2

1.31

Acid Number (AN)

mg KOH/g ASTM D8045



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TO1004267 : 03752513 : 7020526

Received Diagnosed

: 01 Jun 2015 : 02 Jun 2015 Diagnostician : Wes Davis

Test Package : MOB 2 ( Additional Tests: KV100, PQ, 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.

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