

OIL ANALYSIS REPORT

RT

NORMA





CATERPILLAR CRAWLER Component

Component

Diesel Engine

DIESEL ENGINE OIL SAE 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.

241)					
3AL)		1	May2024		
RMATIO	V method	limit/base	current	history1	history2
	Client Info		PCA0074614		
	Client Info		18 May 2024		
hrs	Client Info		0		
hrs	Client Info		250		
	Client Info		N/A		
			NORMAL		
ΓΙΟΝ	method	limit/base	current	history1	history2
	WC Method	>5	<1.0		
	WC Method	>0.2	NEG		
	WC Method		NEG		
_S	method	limit/base	current	history1	history2
_S ppm	method ASTM D5185m	limit/base >100	current 7	history1	history2
					•
ppm	ASTM D5185m	>100	7		
ppm	ASTM D5185m ASTM D5185m	>100 >20 >2	7 <1		
ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >2	7 <1 0		
ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >2 >2 >2	7 <1 0 31		
ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >2 >2 >2 >2 >2	7 <1 0 31 <1		
ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >2 >2 >2 >2 >2 >2 >2	7 <1 0 31 <1		
ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >2 >2 >2 >2 >2 >2 >25 >40	7 <1 0 31 <1 1		
ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >2 >2 >2 >2 >2 >2 >40 >330	7 <1 0 31 <1 1 <1		
ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >2 >2 >2 >2 >2 >2 >40 >330	7 <1 0 31 <1 1 <1 <1 <1 <1 0		
ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>100 >20 >2 >2 >2 >2 >2 >2 >40 >330	7 <1 0 31 <1 1 <1 <1 <1 0 <1		
ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>100 >20 >2 >2 >2 >2 >2 >25 >40 >330 >15	7 <1 0 31 <1 1 <1 <1 <1 <1 <1 0 <1 0		
ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>100 >20 >2 >2 >2 >2 >2 >2 >1 >2 >2 >2 >1 >2 >1 >1 >1 >1 >1 >1 >1 >1 >1 >1 >1 >1 >1	7 <1 0 31 <1 1 <1 <1 <1 0 <1 0 current	 history1	history2
	hrs hrs	Client Info Client Info Client Info hrs Client Info Client Info Client Info WC Method WC Method WC Method	Client Info Client Info hrs Client Info hrs Client Info Client Info WC Method WC Method NC Method Client Info C	Client Info	Client Info

Sample Rating Trend

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	104		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	42		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	878		
Calcium	ppm	ASTM D5185m	3000	1562		
Phosphorus	ppm	ASTM D5185m	1150	1172		
Zinc	ppm	ASTM D5185m	1350	1414		
Sulfur	ppm	ASTM D5185m	4250	4588		
CONTAMINAN	TS	method	limit/base	current	history1	history2
CONTAMINAN Silicon	TS ppm	method ASTM D5185m	limit/base >25	current 6	history1	history2
					history1 	
Silicon	ppm	ASTM D5185m	>25	6	history1	
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25 >158	6 2		
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >158 >20	6 2 2		
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >158 >20 limit/base	6 2 2 current		 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >158 >20 limit/base >3	6 2 2 current		 history2

12.8 9.2

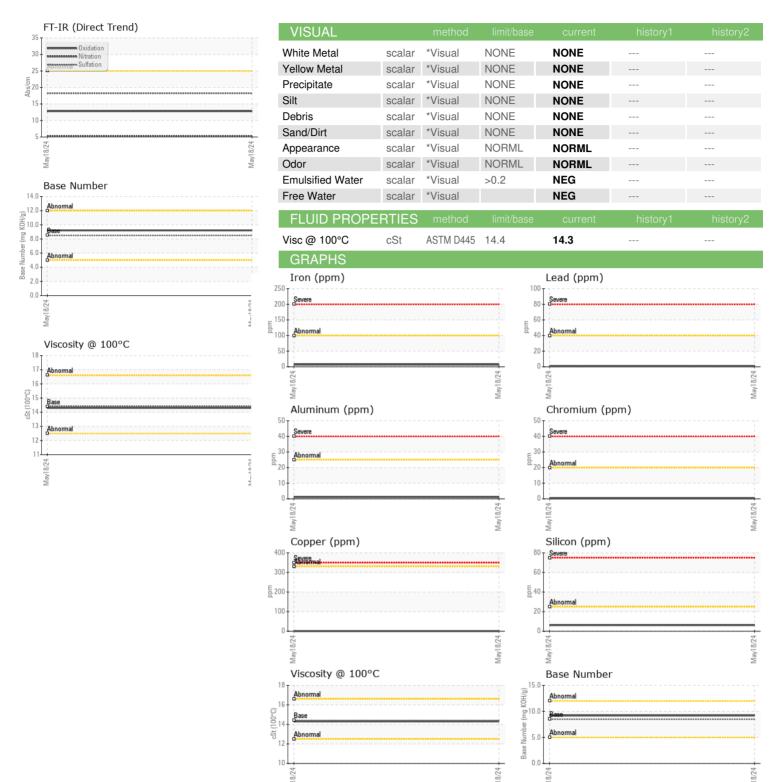
Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 8.5

Oxidation



OIL ANALYSIS REPORT







Sample No.

: PCA0074614 Lab Number : 06188870 Unique Number : 11045622

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** : 24 May 2024

Diagnosed

: 24 May 2024 - Wes Davis

DIXMOOR, IL US 60426 Contact: Service Manager

TRI-STATE DISPOSAL

14050 WOOD ST

Test Package : MOB 1 (Additional Tests: TBN) Certificate 12367 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)

Contact/Location: Service Manager - TRIDIX

Report Id: TRIDIX [WUSCAR] 06188870 (Generated: 05/24/2024 14:32:32) Rev: 1

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