

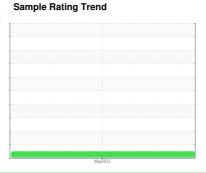
OIL ANALYSIS REPORT



CATERPILLAR PIONEER 3508

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (-





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a components first oil change.

Contamination

There is no indication of any contamination in the

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.

AE 15W40 (C	GAL)			May2023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PC0074649		
Sample Date		Client Info		05 May 2023		
Machine Age	hrs	Client Info		159		
Oil Age	hrs	Client Info		159		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185(m)	>100	10		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Vickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)		1		
_ead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)		10		
Fin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)	7.0	0		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	250	141		
Barium	ppm	ASTM D5185(m)	10	<1		
Molybdenum	ppm	ASTM D5185(m)	100	62		
Manganese	ppm	ASTM D5185(m)		1		
Magnesium	ppm	ASTM D5185(m)	450	378		
Calcium	ppm	ASTM D5185(m)	3000	1840		
Phosphorus	ppm	ASTM D5185(m)	1150	1058		
Zinc	ppm	ASTM D5185(m)	1350	1164		
Sulfur	ppm	ASTM D5185(m)	4250	2782		
_ithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>25	3		
Sodium	ppm	ASTM D5185(m)	>158	2		
Potassium	ppm	ASTM D5185(m)	>20	1		
INFRA-RED	PPIII	method	limit/base		history 1	
	0/			current	•	history 2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	5.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.5		



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CALA ISO 17025:2017 Accredited Laboratory

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

: 02568666

: PC0074649 : 5605712

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 10 Jul 2023 : Wes Davis Diagnostician

: 10 Jul 2023

Test Package : MOB 2 (Additional Tests: KV40, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Martin Energy Group Canada 1050 Boyde Lane RR#1

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T: F: