

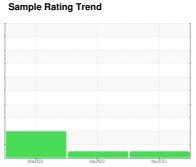
# **OIL ANALYSIS REPORT**



CATERPILLAR D6 8186 (S/N JJ601001)

Component **Diesel Engine** 

PETRO CANADA DURON XL SYN BLEND 15W40 (--- QTS)





## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

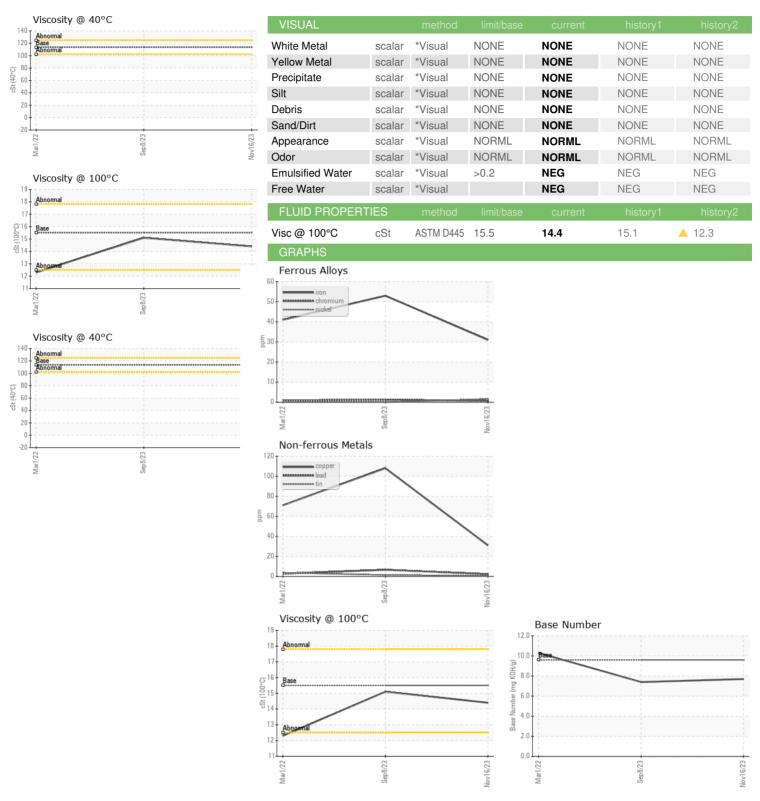
## **Fluid Condition**

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

SAMPLE INFOR Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATIO	hrs hrs	method Client Info Client Info Client Info Client Info	limit/base	current WC0863004 16 Nov 2023 4000	history1 WC0837007 08 Sep 2023 3472	history2 WC0674201 01 Mar 2022 510
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATIO		Client Info Client Info		16 Nov 2023	08 Sep 2023	01 Mar 2022
Machine Age Oil Age Oil Changed Sample Status CONTAMINATIO		Client Info				
Oil Age Oil Changed Sample Status CONTAMINATIO				4000	3472	510
Oil Changed Sample Status CONTAMINATIC	hrs	Client Info		.000		0.0
Sample Status  CONTAMINATIO				528	1458	510
CONTAMINATIC		Client Info		Changed	Changed	Changed
				NORMAL	NORMAL	ABNORMAL
Fuel	)N	method	limit/base	current	history1	history2
1 401		WC Method	>5	<1.0	<1.0	0.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	31	53	41
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	2	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	<1	5
Lead	ppm	ASTM D5185m	>40	2	7	3
Copper	ppm	ASTM D5185m	>330	31	108	71
Tin	ppm	ASTM D5185m	>15	<1	1	4
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	10	13	34
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	51	49
Manganese	ppm	ASTM D5185m	1	<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	902	743	633
Calcium	ppm	ASTM D5185m	1070	1246	1946	1668
Phosphorus	ppm	ASTM D5185m	1150	999	1033	1016
Zinc	ppm	ASTM D5185m	1270	1288	1353	1281
Sulfur	ppm	ASTM D5185m	2060	2672	3327	2515
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	<u>44</u>
Sodium	ppm	ASTM D5185m		12	8	4
Potassium	ppm	ASTM D5185m	>20	3	1	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	1.6	0.5
0001 /0	Abs/cm	*ASTM D7624	>20	9.3	11.5	8.1
				22.4		
	Abs/.1mm	*ASTM D7415	>30	22.4	24.9	24.6
Nitration	Abs/.1mm	*ASTM D7415 method	>30 limit/base	current	24.9 history1	
Nitration Sulfation	Abs/.1mm					24.6 history2 22.3



# **OIL ANALYSIS REPORT**







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

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

: WC0863004 : 06012254 : 10751398

Received Diagnosed

: 20 Nov 2023 : 21 Nov 2023 Diagnostician : Sean Felton

Test Package : CONST ( Additional Tests: KV40, TBN )

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)

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