

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



CATERPILLAR D6T 8156 (S/N HTZ00468)

Component **Diesel Engine**

PETRO CANADA 15W40 (--- QTS)

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

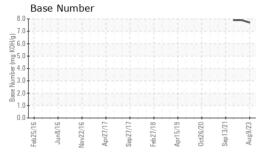
Fluid Condition

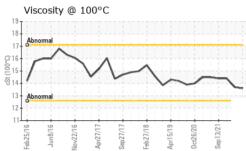
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		b2016 Jun201	6 Nov2016 Apr2017 Sep2	017 Feb2018 Apr2019 Oct2020 S	mp2021 Aug20.	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837142	WC0775849	WC0734411
Sample Date		Client Info		09 Aug 2023	16 Jan 2023	23 Sep 2022
Machine Age	hrs	Client Info		15393	14825	14517
Oil Age	hrs	Client Info		518	358	585
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	17	19	36
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	4	3
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	0	1	3
Tin	ppm	ASTM D5185m	>15	0	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7	14	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		55	63	62
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		898	915	944
Calcium	ppm	ASTM D5185m		1370	1295	1308
Phosphorus	ppm	ASTM D5185m		1063	1044	1092
Zinc	ppm	ASTM D5185m		1353	1278	1279
Sulfur	ppm	ASTM D5185m		4011	3691	3385
CONTAMINANTS method limit/base current history1 history2						history2
Silicon	ppm	ASTM D5185m	>25	5	7	9
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	1
Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.9	13.6
Sulfation	Abs/.1mm	*ASTM D7415		20.6	20.6	25.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	17.4	23.5
Base Number (BN)	mg KOH/g	ASTM D2896	/20	7.7	7.9	7.9
Dase Number (DIV)	my NOTI/y	HOTIVI DZ030		1.1	1.0	1.0



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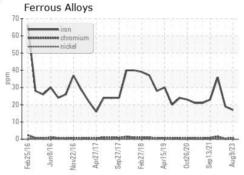


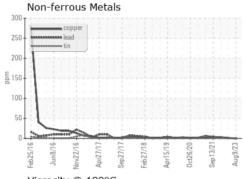


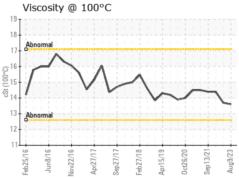
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

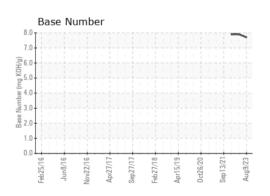
FLUID PROPER	HES	method		history1	history2
Visc @ 100°C	cSt	ASTM D445	13.6	13.7	14.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10605227

: WC0837142 : 05925280

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

: 16 Aug 2023 Diagnostician : Wes Davis

: 15 Aug 2023

Test Package : CONST (Additional Tests: 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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