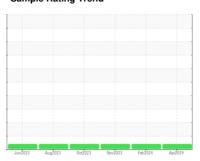


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

CATERPILLAR D6R 106

Component

Diesel Engine

PETRO CANADA 15W40 (--- GAL)



Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

		Jun2023	Aug2023 Oct2023	Nov2023 Feb2024	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0893847	WC0878817	WC0868063
Sample Date		Client Info		12 Apr 2024	14 Feb 2024	28 Nov 2023
Machine Age	hrs	Client Info		16931	16607	16340
Oil Age	hrs	Client Info		324	267	252
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATION	V	method	limit/base	current	history1	history2
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	4	4	3
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	1
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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		2	5	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		55	58	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		965	961	958
Calcium	ppm	ASTM D5185m		1079	1060	1112
Phosphorus	ppm	ASTM D5185m		1050	1145	1143
Zinc	ppm	ASTM D5185m		1264	1302	1323
Sulfur	ppm	ASTM D5185m		3495	3241	3381
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	2
Sodium	ppm	ASTM D5185m		1	2	1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.1	7.0	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	18.4	18.5
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	14.8	14.5
Dana Namalan (DNI)	AND THE PARTY	10TH D0000	720	10.0	17.0	17.0

Base Number (BN) mg KOH/g ASTM D2896

8.8



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: WC0893847 Lab Number : 06183803

Unique Number: 11035129

Received **Tested**

Diagnosed : 22 May 2024 - Jonathan Hester Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: 17 May 2024

: 22 May 2024

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

Contact/Location: JAMIE HUCKS - CLBMYR

Report Id: CLBMYR [WUSCAR] 06183803 (Generated: 05/22/2024 17:01:01) Rev: 1

706 38TH AVE N

US 29577

T:

F:

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Contact: JAMIE HUCKS