

OIL ANALYSIS REPORT

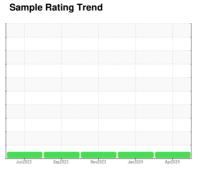


Machine Id **CATERPILLAR D6K DOZER 104**

Component

Diesel Engine

PETRO CANADA 15W40 (--- GAL)





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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0893835	WC0878762	WC0868143
Sample Date		Client Info		20 Apr 2024	18 Jan 2024	10 Nov 2023
Machine Age	hrs	Client Info		10993	10732	10473
Oil Age	hrs	Client Info		250	259	278
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	13	16	15
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	7	6
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	1	2	2
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	4	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		59	76	60
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		972	1218	891
Calcium	ppm	ASTM D5185m		1055	1141	1050
Phosphorus	ppm	ASTM D5185m		1014	1031	956
Zinc	ppm	ASTM D5185m		1257	1524	1176
Sulfur	ppm	ASTM D5185m		3365	3249	3064
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	6
Sodium	ppm	ASTM D5185m		1	0	1
Potassium	ppm	ASTM D5185m	>20	0	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.6	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.6	19.2
FLUID DEGRADATION method		limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.6	15.0
Base Number (BN)	mg KOH/g	ASTM D2896		8.3	8.8	8.8



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Certificate 12367

Laboratory Sample No.

Lab Number : 06183802 Unique Number : 11035128

: WC0893835

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 May 2024 : 20 May 2024

Tested Diagnosed

: 20 May 2024 - Wes Davis

Test Package : MOB 1 (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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