

OIL ANALYSIS REPORT

Sample Rating Trend

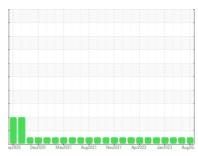
NORMAL



CATERPILLAR 374FL 8399 (S/N XWL00244)

Component **Diesel Engine**

PETRO CANADA DURON XL SYN BLEND 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

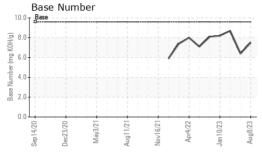
Fluid Condition

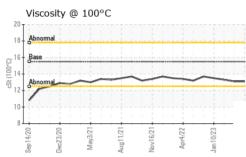
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

15 17 15 17 17 (GAL) 192020 Dec2020 Me/2021 New2021 Apr2022 Jan2023 Aug201						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837112	WC0797848	WC0791050
Sample Date		Client Info		08 Aug 2023	15 Jun 2023	24 Feb 2023
Machine Age	hrs	Client Info		11478	10911	10432
Oil Age	hrs	Client Info		567	479	188
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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
ron	ppm	ASTM D5185m	>100	16	21	6
Chromium	ppm	ASTM D5185m	>6	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	2	1
_ead	ppm	ASTM D5185m	>10	0	3	0
Copper	ppm	ASTM D5185m	>150	0	3	1
Γin	ppm	ASTM D5185m	>4	0	<1	0
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	1	0	6	10
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	64	63
Manganese	ppm	ASTM D5185m	1	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1016	1016	967
Calcium	ppm	ASTM D5185m	1070	1214	1178	1172
Phosphorus	ppm	ASTM D5185m	1150	1107	1030	1064
Zinc	ppm	ASTM D5185m	1270	1434	1320	1306
Sulfur	ppm	ASTM D5185m	2060	4182	3797	3915
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	7	4
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	0	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.2
Vitration	Abs/cm	*ASTM D7624	>20	10.5	11.0	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	23.8	19.8
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	22.1	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	7.5	6.4	8.7
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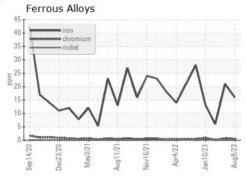
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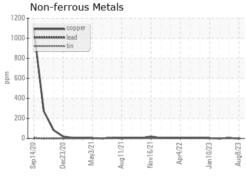


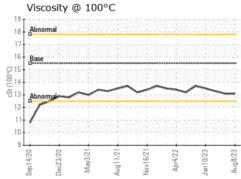


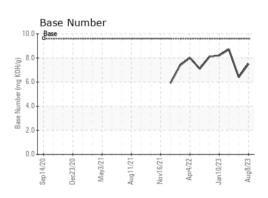
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.5	13.1	13.1	13.3













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10605226

: WC0837112 : 05925279

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

: 15 Aug 2023 Diagnosed

: 16 Aug 2023 Diagnostician : Wes Davis

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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