

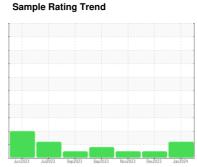
OIL ANALYSIS REPORT



CATERPILLAR 374 10555 (S/N TNX10032)

Component **Diesel Engine**

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





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

Light fuel dilution occurring.

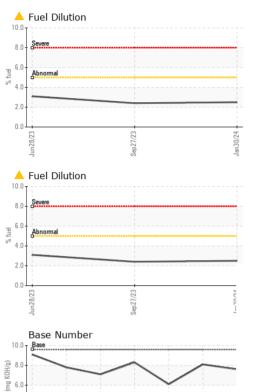
▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

(L SYN BLEND 15W40 (GAL)						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888221	WC0879336	WC0862981
Sample Date		Client Info		30 Jan 2024	21 Dec 2023	07 Nov 2023
Machine Age	hrs	Client Info		3903	3227	2717
Oil Age	hrs	Client Info		670	510	554
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATIO	N	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	17	14	13
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	5	5	10
Lead	ppm	ASTM D5185m	>10	1	<1	2
Copper	ppm	ASTM D5185m	>150	3	3	7
Tin	ppm	ASTM D5185m	>4	<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	1	6	2	6
Barium	ppm	ASTM D5185m	1	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	59	59	58
Manganese	ppm	ASTM D5185m	1	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	894	922	955
Calcium	ppm	ASTM D5185m	1070	1090	1135	1051
Phosphorus	ppm	ASTM D5185m	1150	997	947	1053
Zinc	ppm	ASTM D5185m	1270	1209	1220	1269
Sulfur	ppm	ASTM D5185m	2060	2838	3201	3025
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	4	6
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	4	8	13
Fuel	%	ASTM D3524	>5	<u>^</u> 2.5	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.1	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	17.9	18.1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	13.2	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	7.6	8.1	6.1

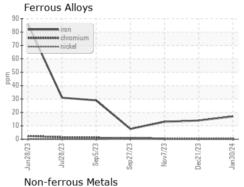


OIL ANALYSIS REPORT

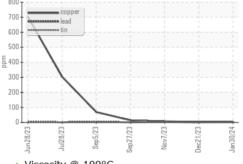


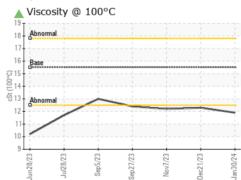
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

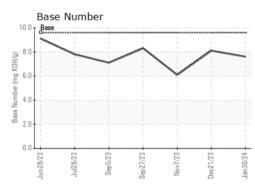
FLUID FROFERITES		memou iiiii/base			HISTOLAL	TIISTOT y Z	
Visc @ 100°C	cSt	ASTM D445	15.5	11.9	12.3	12.2	













Base

0.0



Laboratory Sample No. Lab Number : 06076608 Unique Number: 10858699

: WC0888221

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

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Tested Diagnosed

:01 Feb 2024 : 05 Feb 2024

: 05 Feb 2024 - Jonathan Hester

NEW BERN, NC US 28563 Contact: MIKE WYATT

PO DRAWER 1578

mwyatt@traderconstruction.com

TRADER CONSTRUCTION CO.

T: (252)633-1399 F: (252)638-4871

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)