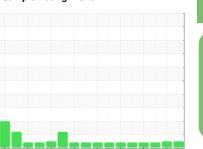


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL





CATERPILLAR 374 8367 (S/N TMX00235)

Component

Diesel Engine

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

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

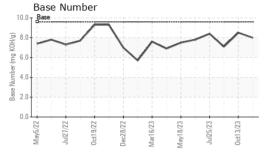
Fluid Condition

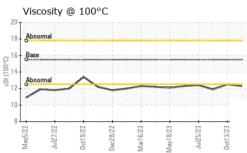
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Aay2022 Jul2	OZZ OCIZOZZ DECZOZZ	Mar2023 May2023 Jul2023	Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0879378	WC0862871	WC0837012	
Sample Date		Client Info		29 Nov 2023	13 Oct 2023	06 Sep 2023	
Machine Age	hrs	Client Info		8996	8493	8136	
Oil Age	hrs	Client Info		487	389	680	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	ATTENTION	
CONTAMINATION	V	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	8	9	15	
Chromium	ppm	ASTM D5185m	>6	<1	0	0	
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	1	1	2	
Lead	ppm	ASTM D5185m	>10	1	2	6	
Copper	ppm		>150	2	1	3	
Tin	ppm	ASTM D5185m	>4	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES	1-1-	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	1	2	4	1	
Barium	ppm		1	2	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	60	63	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	874	943	993	
Calcium	ppm	ASTM D5185m	1070	1113	1141	1273	
Phosphorus	ppm	ASTM D5185m	1150	911	1043	1053	
Zinc	ppm	ASTM D5185m	1270	1156	1256	1317	
Sulfur	ppm	ASTM D5185m	2060	3401	3133	3616	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m		5	7	7	
Sodium	ppm	ASTM D5185m	7 = 0	0	2	2	
Potassium	ppm	ASTM D5185m	>20	<1	0	<1	
INFRA-RED	11	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.7	9.2	
Sulfation	Abs/.1mm	*ASTM D7024	>30	19.2	19.0	20.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.7	15.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.0	8.0	8.5	7.1	



OIL ANALYSIS REPORT

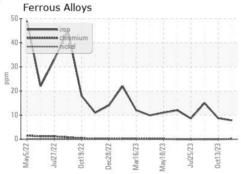


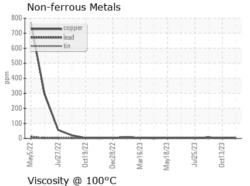


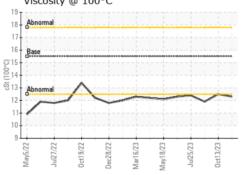
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

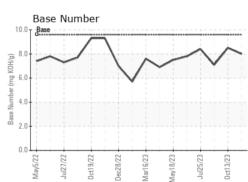
FLUID PROPERTIES		memod			riistory i	Historyz	
Visc @ 100°C	cSt	ASTM D445	15.5	12.3	12.5	<u>11.9</u>	

GRAPHS













Report Id: TRANEW [WUSCAR] 06026193 (Generated: 12/08/2023 04:42:12) Rev: 1

Laboratory Sample No. Lab Number

Unique Number

: WC0879378 : 06026193 : 10775984

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Dec 2023 Diagnosed

: 07 Dec 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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