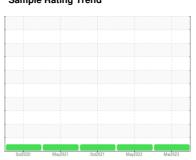


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



PIERCE 0671

Component

Diesel Engine

CHEVRON DELO 400 XLE 10W30 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

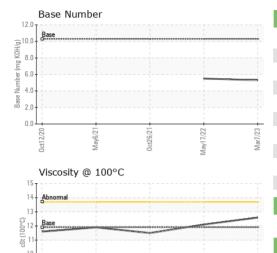
Fluid Condition

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

		0ct2020	May2021	0ct2021 May2022	Mar2023	
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0771940	WC0701520	WC0610942
Sample Date		Client Info		07 Mar 2023	17 May 2022	26 Oct 2021
Machine Age	hrs	Client Info		2742	2136	1659
Oil Age	hrs	Client Info		1083	864	387
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	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
Iron	ppm	ASTM D5185m	>100	41	22	15
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	17	12	6
Lead	ppm	ASTM D5185m	>40	1	0	<1
Copper	ppm	ASTM D5185m	>330	61	50	47
Tin	ppm	ASTM D5185m	>15	3	3	2
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13	25	46
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		18	15	25
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		817	766	771
Calcium	ppm	ASTM D5185m	2900	1571	1511	1506
Phosphorus	ppm	ASTM D5185m	1100	754	776	780
Zinc	ppm	ASTM D5185m	1200	994	971	881
Sulfur	ppm	ASTM D5185m	4000	3371	2515	2716
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm		>25	6	5	4
Sodium	ppm	ASTM D5185m		18	11	7
Potassium	ppm	ASTM D5185m	>20	30	21	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	12.7	10.5	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.4	24.2	21.7
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.8	19.5	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	5.3	5.5	



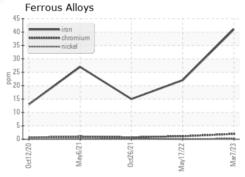
OIL ANALYSIS REPORT

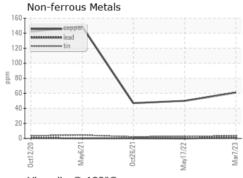


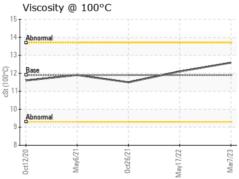
May17/22

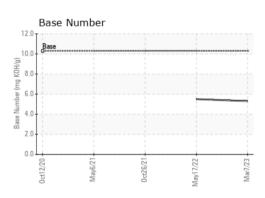
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERI	HES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	11.9	12.59	12.1	11.5













Laboratory Sample No. Lab Number **Unique Number** Test Package : CONST (Additional Tests: TBN)

: 05790304 : 10374975

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0771940

Received : 13 Mar 2023 Diagnosed Diagnostician : Wes Davis

: 17 Mar 2023

TOWN OF CARY 420 JAMES JACKSON AVENUE CARY, NC US 27513

Contact: BRANDON PASINSKI brandon.pasinski@townofcary.org

T: (919)469-4098

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) F: (919)380-6420

Contact/Location: BRANDON PASINSKI - TOWCARNC