



PROBLEM SUMMARY

Sample Rating Trend



FUEL



Machine Id

CTL-3

Component

Diesel Engine

Fluid

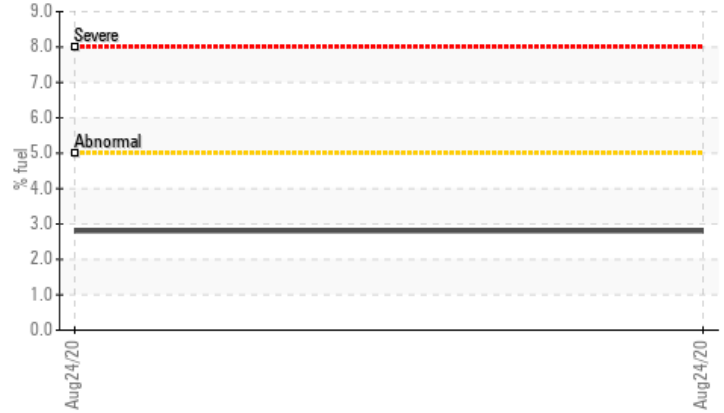
CHEVRON DELO 400 MULTIGRADE 15W40 (3 GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 100°C



▲ Fuel Dilution



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Fuel	%	ASTM D3524	>5	▲ 2.8	---	---
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.5	---	---

Customer Id: CUSKAL
 Sample No.: WC0462185
 Lab Number: 05065969
 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:
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To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

CTL-3

Component

Diesel Engine

Fluid

CHEVRON DELO 400 MULTIGRADE 15W40 (3 GAL)

DIAGNOSIS

▲ 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0462185	---	---
Sample Date	Client Info	24 Aug 2020	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ATTENTION	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	36	---
Chromium	ppm	ASTM D5185m >20	<1	---
Nickel	ppm	ASTM D5185m >4	<1	---
Titanium	ppm	ASTM D5185m	<1	---
Silver	ppm	ASTM D5185m >3	0	---
Aluminum	ppm	ASTM D5185m >20	3	---
Lead	ppm	ASTM D5185m >40	0	---
Copper	ppm	ASTM D5185m >330	59	---
Tin	ppm	ASTM D5185m >15	<1	---
Antimony	ppm	ASTM D5185m	0	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 151	35	---
Barium	ppm	ASTM D5185m 0.4	2	---
Molybdenum	ppm	ASTM D5185m 250	6	---
Manganese	ppm	ASTM D5185m	2	---
Magnesium	ppm	ASTM D5185m 0	295	---
Calcium	ppm	ASTM D5185m 2046	2079	---
Phosphorus	ppm	ASTM D5185m 1043	908	---
Zinc	ppm	ASTM D5185m 943	1107	---
Sulfur	ppm	ASTM D5185m 5012	2797	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	10	---
Sodium	ppm	ASTM D5185m	5	---
Potassium	ppm	ASTM D5185m >20	5	---
Fuel	%	ASTM D3524 >5	▲ 2.8	---

INFRA-RED

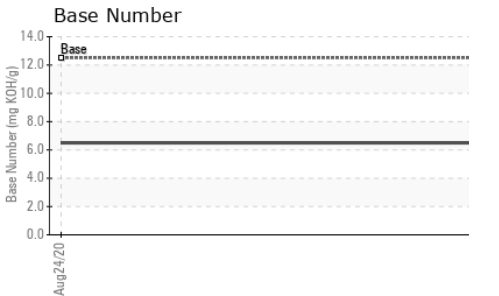
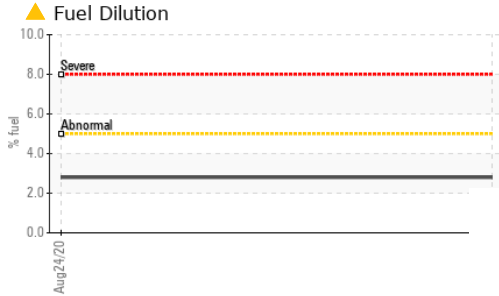
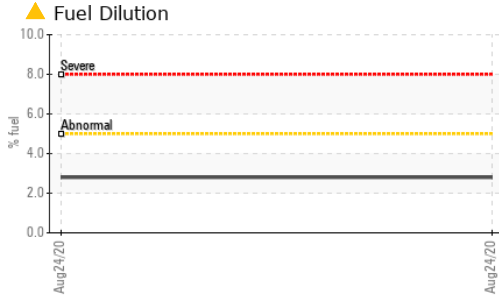
method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	---
Nitration	Abs/cm	*ASTM D7624 >20	11.3	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.9	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.4	---
Base Number (BN)	mg KOH/g	ASTM D2896 12.5	6.5	---



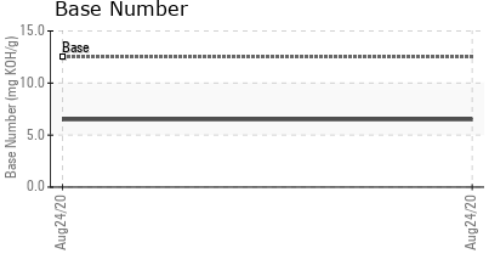
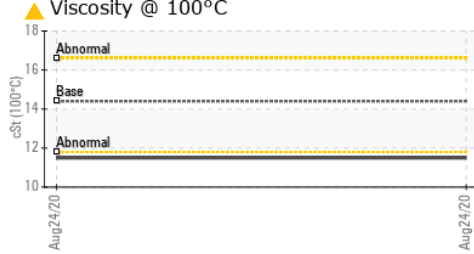
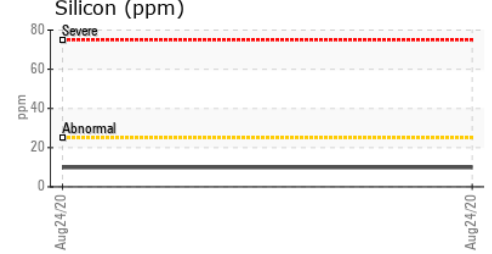
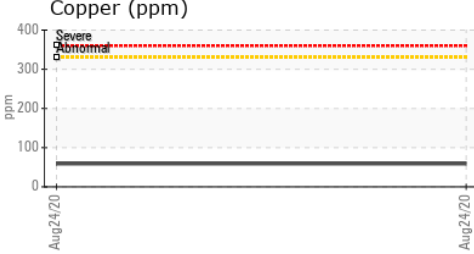
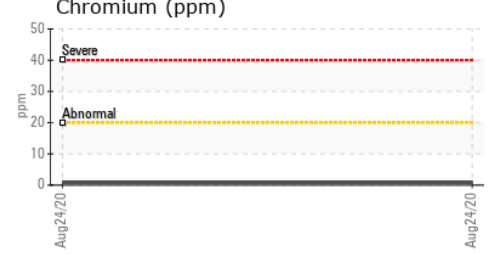
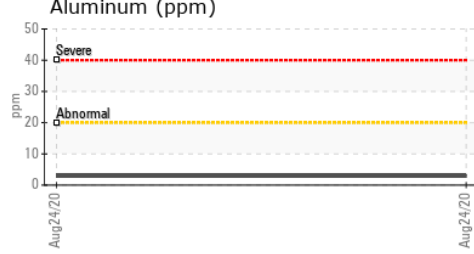
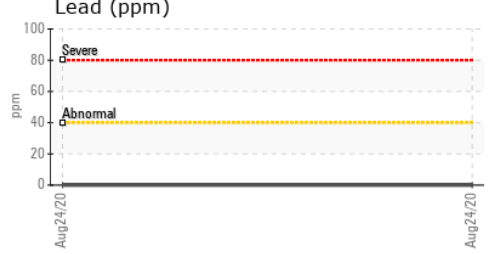
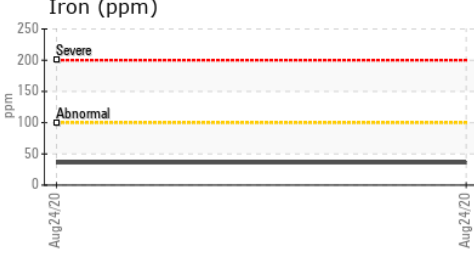
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	---	---
Yellow Metal	scalar	*Visual NONE	NONE	---	---
Precipitate	scalar	*Visual NONE	NONE	---	---
Silt	scalar	*Visual NONE	NONE	---	---
Debris	scalar	*Visual NONE	NONE	---	---
Sand/Dirt	scalar	*Visual NONE	NONE	---	---
Appearance	scalar	*Visual NORML	NORML	---	---
Odor	scalar	*Visual NORML	NORML	---	---
Emulsified Water	scalar	*Visual >0.2	NEG	---	---
Free Water	scalar	*Visual	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 14.4	▲ 11.5	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0462185 **Received** : 15 Sep 2020
Lab Number : 05065969 **Diagnosed** : 17 Sep 2020
Unique Number : 9176159 **Diagnostician** : Jonathan Hester
Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

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Certificate L2367
 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)