



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
139-231
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0007748	RPL0007239	---
Sample Date		Client Info		29 Jun 2023	19 Oct 2022	---
Machine Age	mls	Client Info		325492	325492	---
Oil Age	mls	Client Info		325492	0	---
Filter Age	mls	Client Info		325492	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				ATTENTION	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	16	17	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	3	8	---
Lead	ppm	ASTM D5185m	>40	0	0	---
Copper	ppm	ASTM D5185m	>330	26	2	---
Tin	ppm	ASTM D5185m	>15	1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

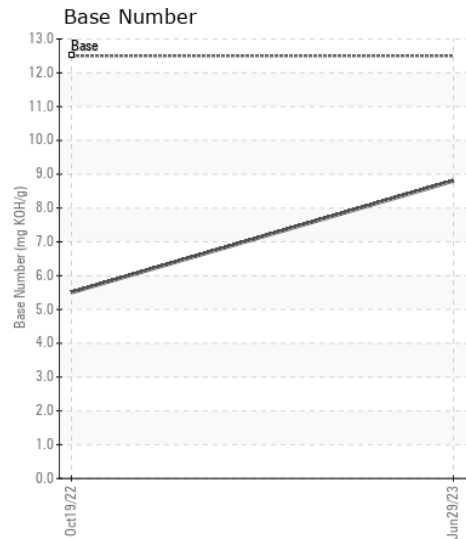
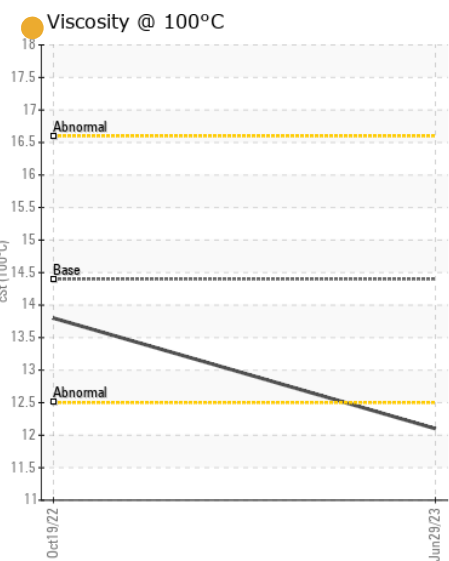
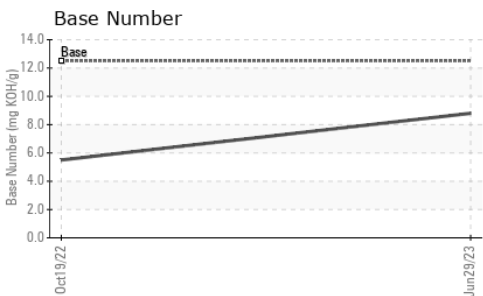
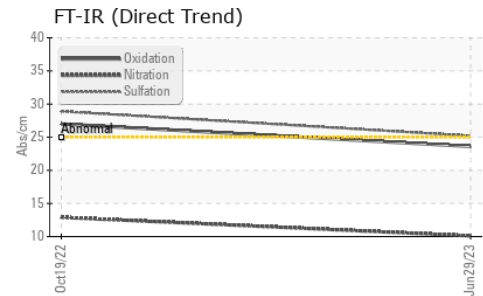
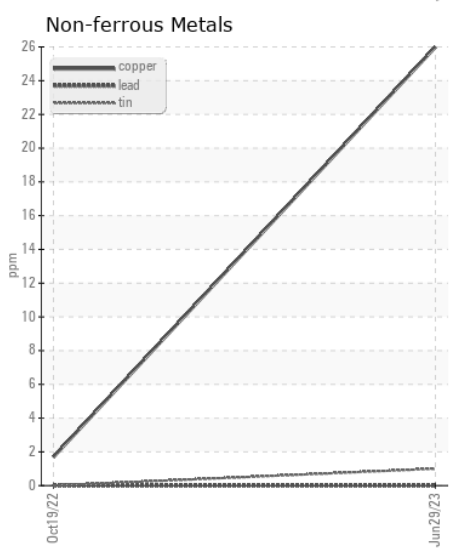
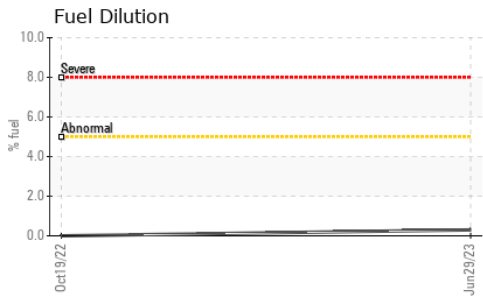
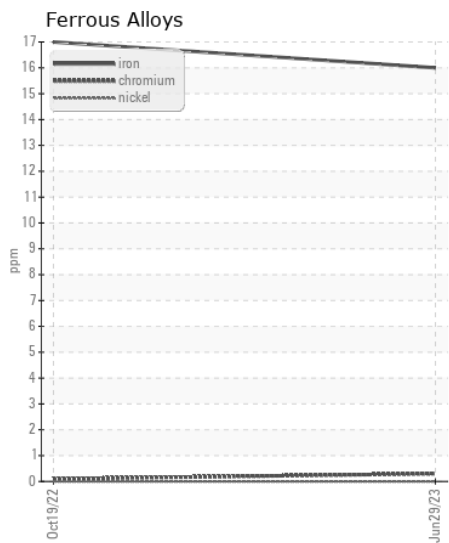
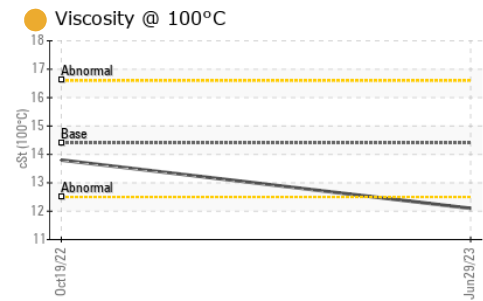
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	9	---
Potassium	ppm	ASTM D5185m	>20	6	69	---
Fuel	%	ASTM D3524	>5	0.3	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	*ASTM D7844	>3	0.3	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	10.1	12.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	28.9	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

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.

Sodium	ppm	ASTM D5185m		15	121	---
Boron	ppm	ASTM D5185m	151	47	22	---
Barium	ppm	ASTM D5185m	0.4	0	0	---
Molybdenum	ppm	ASTM D5185m	250	57	116	---
Manganese	ppm	ASTM D5185m		1	<1	---
Magnesium	ppm	ASTM D5185m	0	516	618	---
Calcium	ppm	ASTM D5185m	2046	1594	1438	---
Phosphorus	ppm	ASTM D5185m	1043	980	574	---
Zinc	ppm	ASTM D5185m	943	1235	751	---
Sulfur	ppm	ASTM D5185m	5012	3532	2887	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.6	27.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	8.8	5.5	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.1	13.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0007748 **Received** : 20 Jul 2023
Lab Number : 05903108 **Tested** : 21 Jul 2023
Unique Number : 10564464 **Diagnosed** : 21 Jul 2023 - Don Baldrige
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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)