



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PIERCE 0382
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (26 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0771935	WC0701505	WC0576778
Sample Date		Client Info		15 Feb 2023	07 Jun 2022	16 May 2021
Machine Age	hrs	Client Info		5253	4637	3616
Oil Age	hrs	Client Info		616	625	297
Filter Age	hrs	Client Info		616	625	297
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	42	29	19
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	6	4	2
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>15	6	8	6
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m	>100	5	4	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

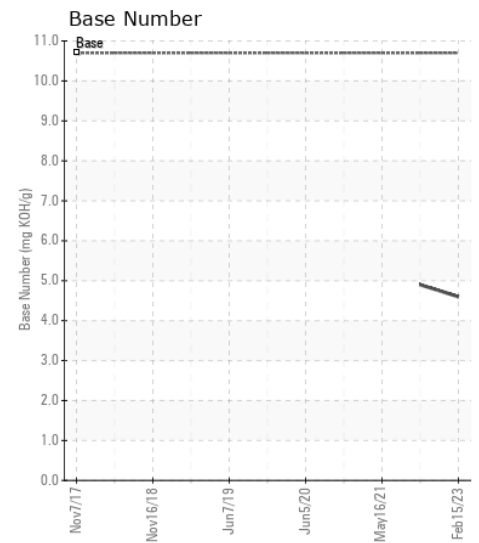
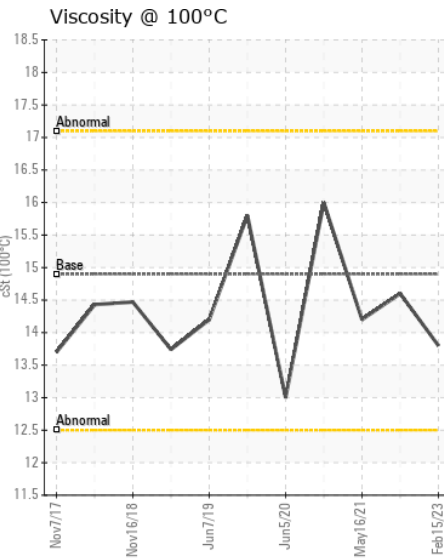
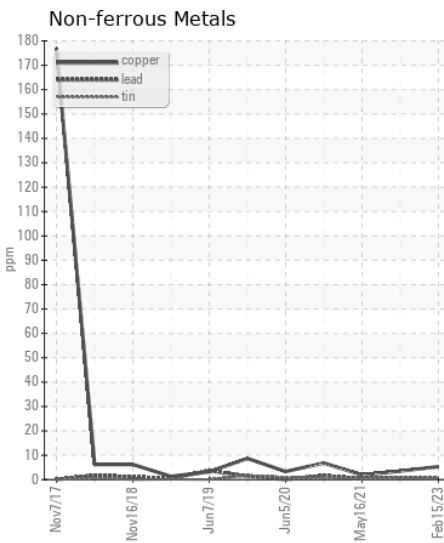
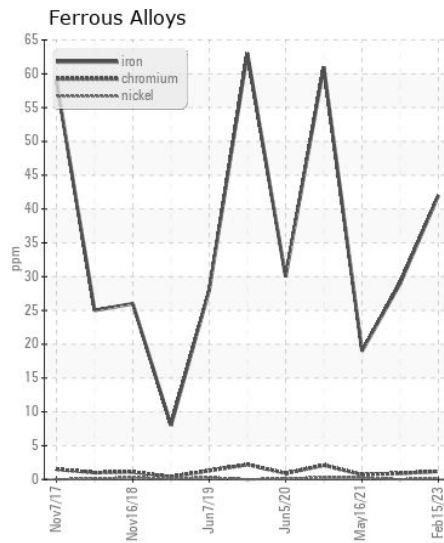
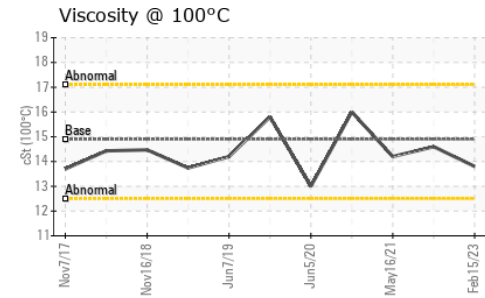
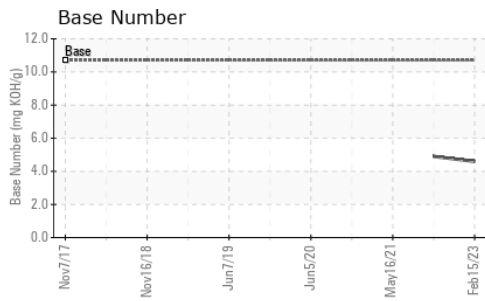
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	21	7
Potassium	ppm	ASTM D5185m	>20	13	16	19
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	1.1	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.5	12.1	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.1	27.9	26
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

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.

Sodium	ppm	ASTM D5185m		7	6	2
Boron	ppm	ASTM D5185m		64	35	103
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		65	57	14
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		538	349	139
Calcium	ppm	ASTM D5185m		1425	1823	2071
Phosphorus	ppm	ASTM D5185m	760	778	889	897
Zinc	ppm	ASTM D5185m	830	989	1138	1096
Sulfur	ppm	ASTM D5185m	2770	3352	3213	3029
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.7	23.3	22
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	4.6	4.9	---
Visc @ 100°C	cSt	ASTM D445	14.9	13.8	14.6	14.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0771935 **Received** : 17 Feb 2023
Lab Number : 05770648 **Tested** : 20 Feb 2023
Unique Number : 10345265 **Diagnosed** : 20 Feb 2023 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

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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)