



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PIERCE 2952
Component
Diesel Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (32 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0680422	WC0637277	WC0563220
Sample Date		Client Info		29 Mar 2022	22 Nov 2021	07 Apr 2021
Machine Age	hrs	Client Info		7052	6827	6315
Oil Age	hrs	Client Info		737	512	628
Filter Age	hrs	Client Info		225	512	628
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	>200	19	11	19
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	5	4	12
Silver	ppm	ASTM D5185m	>2	<1	<1	1
Aluminum	ppm	ASTM D5185m	>30	7	5	10
Lead	ppm	ASTM D5185m	>30	0	<1	<1
Copper	ppm	ASTM D5185m	>30	8	6	6
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

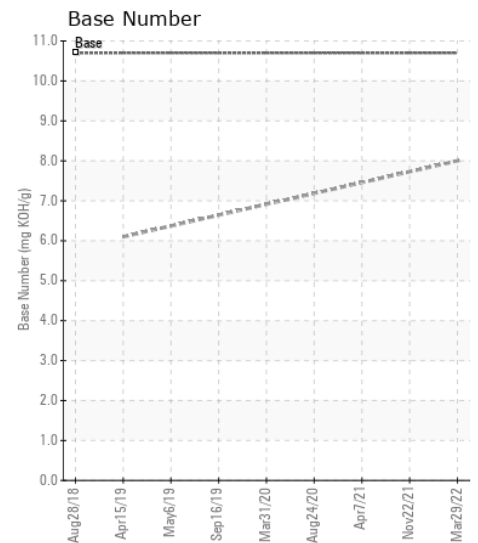
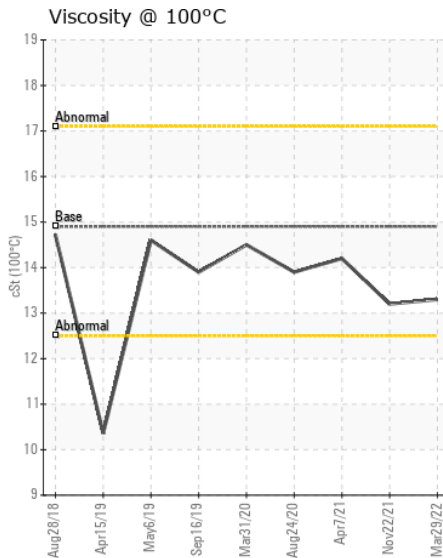
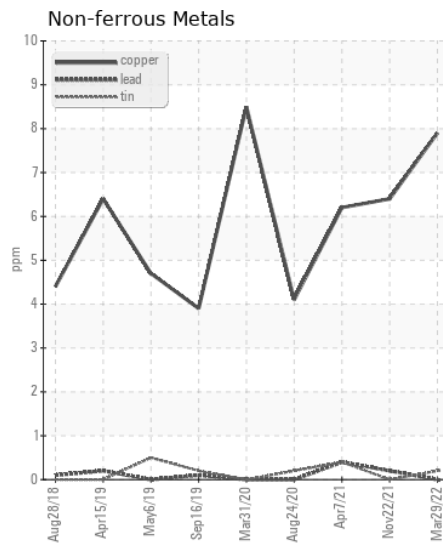
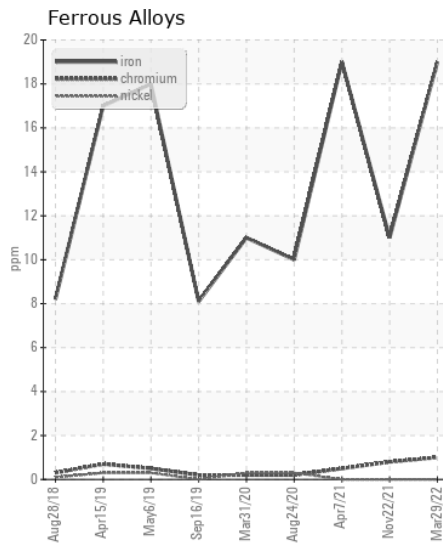
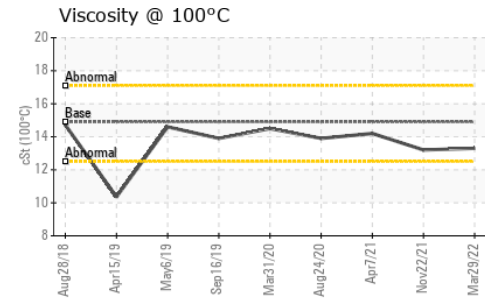
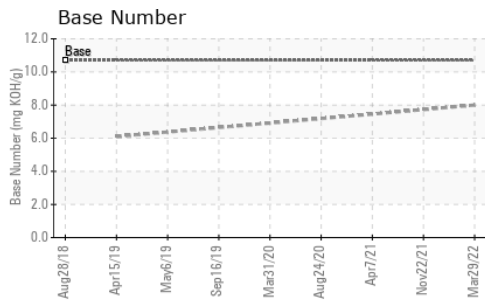
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	5	4	3
Potassium	ppm	ASTM D5185m	>20	20	14	14
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.6	1.1	1.7
Nitration	Abs/cm	*ASTM D7624	>20	11.6	9.1	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	22.2	27
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		20	15	10
Boron	ppm	ASTM D5185m		56	78	36
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		20	18	54
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		294	247	668
Calcium	ppm	ASTM D5185m		2196	2043	1678
Phosphorus	ppm	ASTM D5185m	760	979	857	823
Zinc	ppm	ASTM D5185m	830	1224	1044	976
Sulfur	ppm	ASTM D5185m	2770	2884	2860	2427
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	16.2	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	8.0	---	---
Visc @ 100°C	cSt	ASTM D445	14.9	13.3	13.2	14.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0680422 **Received** : 04 Apr 2022
Lab Number : 05509149 **Tested** : 05 Apr 2022
Unique Number : 9918423 **Diagnosed** : 05 Apr 2022 - Don Baldrige
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)