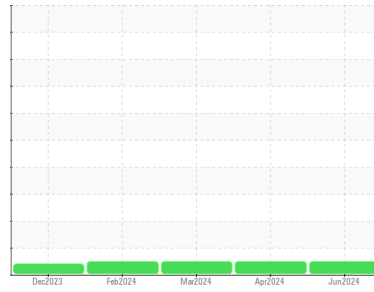




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

72230

Component

Diesel Engine

Fluid

CHEVRON DELO 400 XLE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0528536	WC0920968	WC0681107
Sample Date	Client Info		19 Jun 2024	30 Apr 2024	01 Mar 2024
Machine Age	hrs	Client Info	4221	3347	2229
Oil Age	hrs	Client Info	874	1118	499
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	48	39	50
Chromium	ppm	ASTM D5185m >20	4	4	2
Nickel	ppm	ASTM D5185m >4	<1	0	0
Titanium	ppm	ASTM D5185m	18	19	17
Silver	ppm	ASTM D5185m >3	<1	<1	0
Aluminum	ppm	ASTM D5185m >20	18	25	8
Lead	ppm	ASTM D5185m >40	5	<1	0
Copper	ppm	ASTM D5185m >330	15	19	33
Tin	ppm	ASTM D5185m >15	<1	<1	0
Vanadium	ppm	ASTM D5185m	<1	<1	<1
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	35	40	49
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	35	36	30
Manganese	ppm	ASTM D5185m	1	2	1
Magnesium	ppm	ASTM D5185m	806	854	738
Calcium	ppm	ASTM D5185m	1786	1787	1609
Phosphorus	ppm	ASTM D5185m 760	839	820	717
Zinc	ppm	ASTM D5185m 830	1000	952	804
Sulfur	ppm	ASTM D5185m 2770	3079	3347	3817

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	15	10	16
Sodium	ppm	ASTM D5185m	21	3	3
Potassium	ppm	ASTM D5185m >20	34	52	9

INFRA-RED

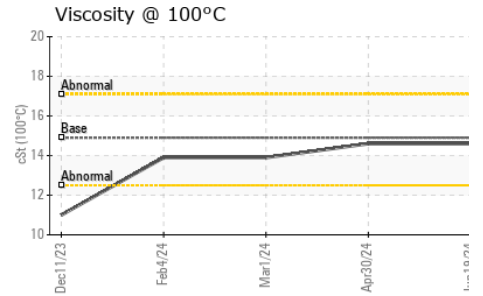
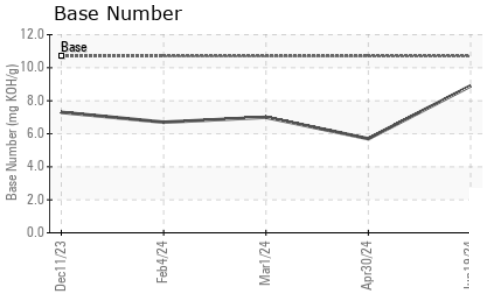
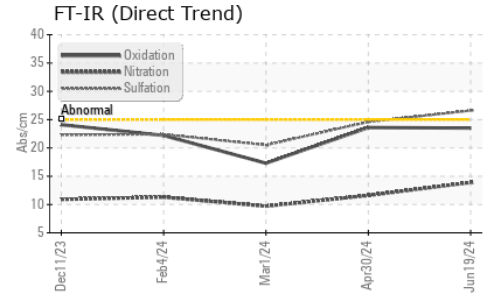
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.4	0.2
Nitration	Abs/cm	*ASTM D7624 >20	13.9	11.6	9.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	26.6	24.6	20.5

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	23.5	23.6	17.3
Base Number (BN)	mg KOH/g	ASTM D2896 10.7	8.9	5.7	7.0



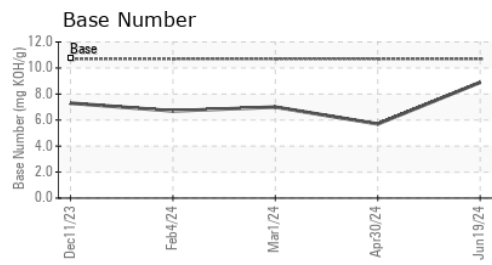
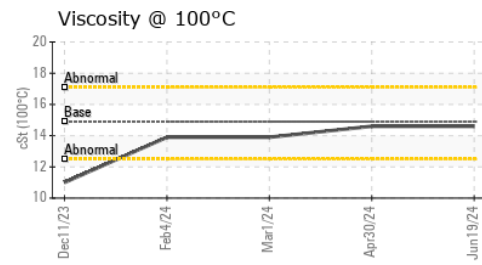
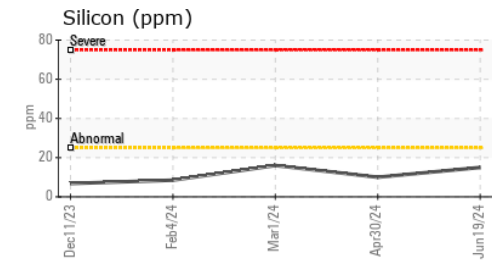
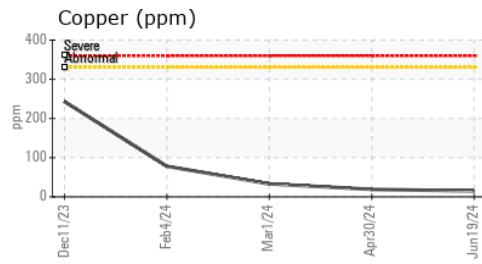
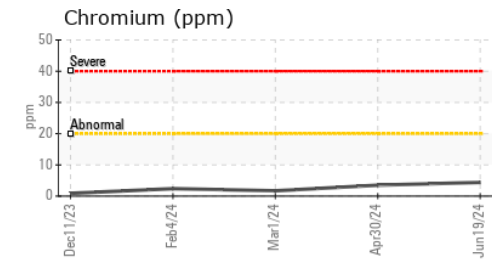
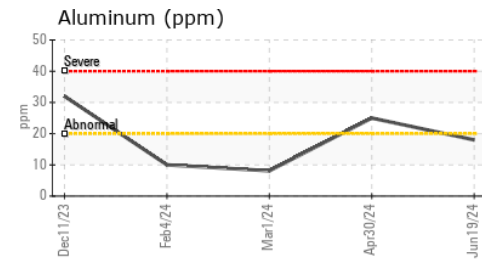
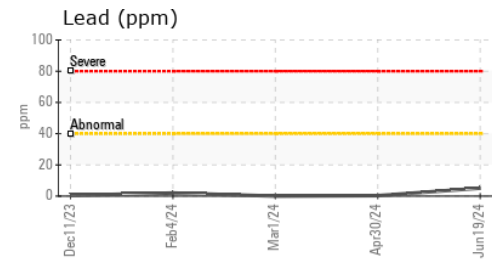
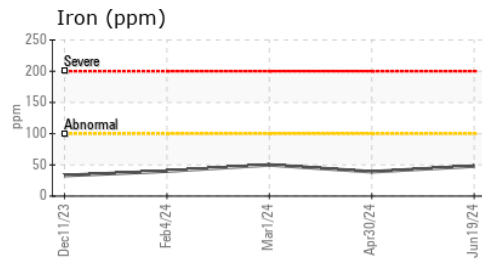
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.9	14.6	13.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0528536 **Received** : 16 Jul 2024
Lab Number : 06238712 **Tested** : 17 Jul 2024
Unique Number : 11127546 **Diagnosed** : 18 Jul 2024 - Sean Felton
Test Package : MOB1+

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 KOTZEBUE, AK
 US 99752
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 T: (907)754-5551
 F: (800)418-0974

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)