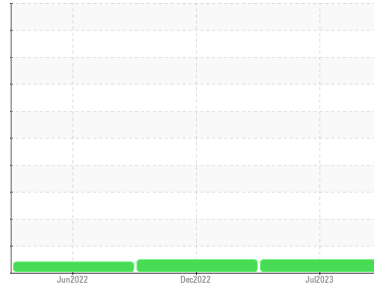




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
GM Renton Dump Truck Shop
 Machine Id
[GM Renton Dump Truck Shop] S12-506
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 XLE 10W30 (--- 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		PE0001228	PE0000312	PE12230623
Sample Date	Client Info		24 Jul 2023	05 Dec 2022	02 Jun 2022
Machine Age	hrs	Client Info	2691	1795	934
Oil Age	hrs	Client Info	896	1795	934
Oil Changed	Client Info		Not Chngd	Changed	Not Chngd
Sample Status			NORMAL	NORMAL	MARGINAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	25	69	49
Chromium	ppm	ASTM D5185m >20	<1	<1	0
Nickel	ppm	ASTM D5185m >4	<1	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	<1	<1	<1
Aluminum	ppm	ASTM D5185m >20	5	16	13
Lead	ppm	ASTM D5185m >40	<1	2	4
Copper	ppm	ASTM D5185m >330	3	11	13
Tin	ppm	ASTM D5185m >15	1	2	1
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	20	24
Barium	ppm	ASTM D5185m	0	0	1
Molybdenum	ppm	ASTM D5185m	8	30	30
Manganese	ppm	ASTM D5185m	<1	1	---
Magnesium	ppm	ASTM D5185m	160	845	952
Calcium	ppm	ASTM D5185m 2900	2051	1518	1344
Phosphorus	ppm	ASTM D5185m 1100	959	937	895
Zinc	ppm	ASTM D5185m 1200	1205	1203	1093
Sulfur	ppm	ASTM D5185m 4000	3936	3788	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	6	9	8
Sodium	ppm	ASTM D5185m	3	2	2
Potassium	ppm	ASTM D5185m >20	11	33	37

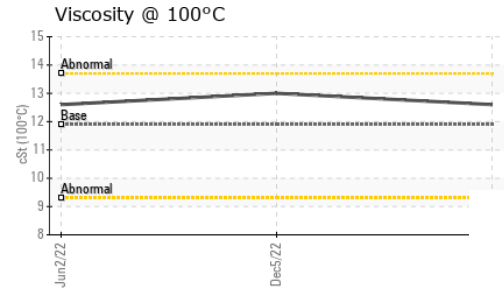
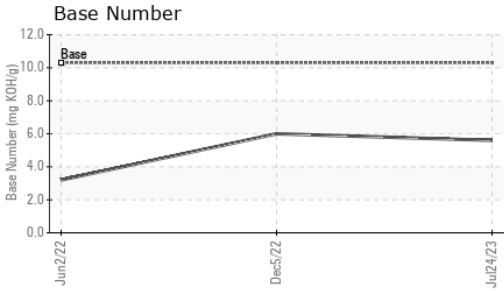
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.8	1.2	0.6
Nitration	Abs/cm	*ASTM D7624 >20	10.5	13.8	12
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.2	30.3	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.3	26.4	21
Base Number (BN)	mg KOH/g	ASTM D2896 10.3	5.6	6.0	3.20

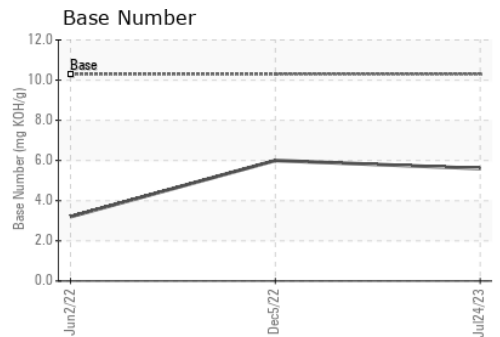
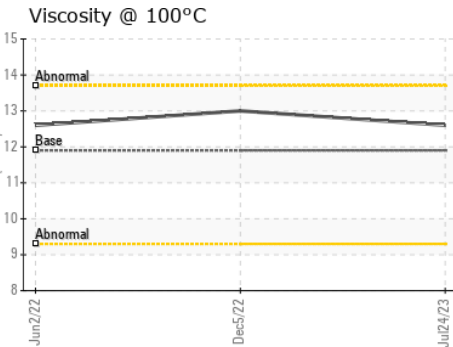
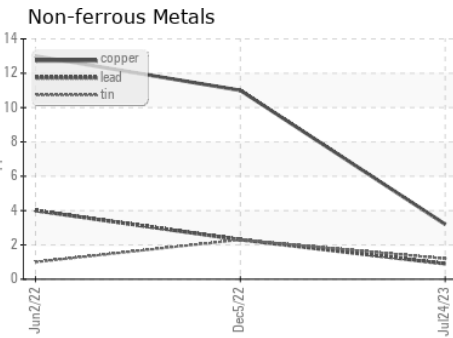
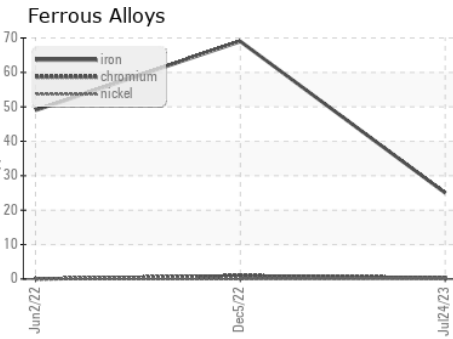
OIL ANALYSIS REPORT



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	11.9	12.6	13.0	▲ 12.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0001228 **Received** : 11 Aug 2023
Lab Number : **05922652** **Diagnosed** : 14 Aug 2023
Unique Number : 10602599 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, SCREEN, TBN)

Gary Merlino Construction - Off Road Shop
 9125 10TH AVE SOUTH
 SEATTLE, WA
 US 98108
 Contact: Zack
 oilsamples@gmccinc.com

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)

T:
F: