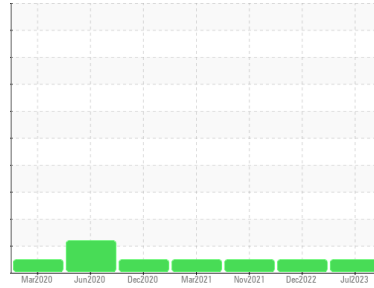




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Stoneway Concrete Renton
 Machine Id
[Stoneway Concrete Renton] 10-529
 Component
Diesel Engine
 Fluid
CASTROL Vecton LD 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	PE0001156	PE0000340	PE12292688
Sample Date	Client Info	27 Jul 2023	14 Dec 2022	16 Nov 2021
Machine Age	hrs	6537	5222	3821
Oil Age	hrs	1315	1403	1328
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	1.52
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	16	23	22
Chromium	ppm ASTM D5185m >20	<1	<1	0
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	<1	0	<1
Aluminum	ppm ASTM D5185m >20	5	6	9
Lead	ppm ASTM D5185m >40	<1	0	0
Copper	ppm ASTM D5185m >330	4	19	49
Tin	ppm ASTM D5185m >15	<1	0	0
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	33	24	24
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	8	64	75
Manganese	ppm ASTM D5185m	<1	<1	---
Magnesium	ppm ASTM D5185m	114	1074	1243
Calcium	ppm ASTM D5185m	2097	1190	1118
Phosphorus	ppm ASTM D5185m	965	1059	1125
Zinc	ppm ASTM D5185m	1215	1373	1430
Sulfur	ppm ASTM D5185m	3921	3543	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	3	5	6
Sodium	ppm ASTM D5185m	4	1	2
Potassium	ppm ASTM D5185m >20	10	13	20

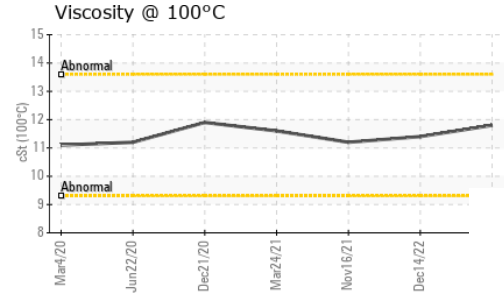
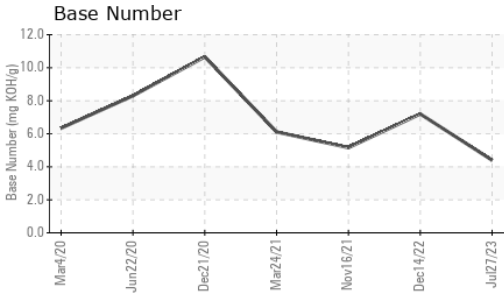
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.6	0.7	0.3
Nitration	Abs/cm *ASTM D7624 >20	9.9	11.4	11
Sulfation	Abs/.1mm *ASTM D7415 >30	26.3	25.5	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	21.1	22.2	22
Base Number (BN)	mg KOH/g ASTM D2896	4.4	7.2	5.16

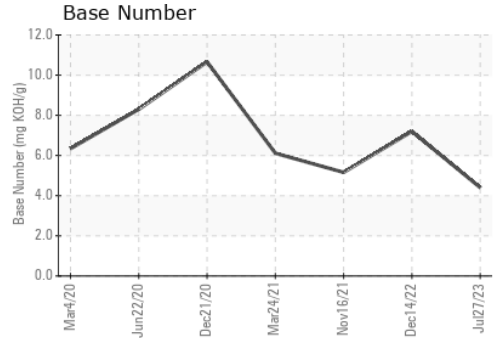
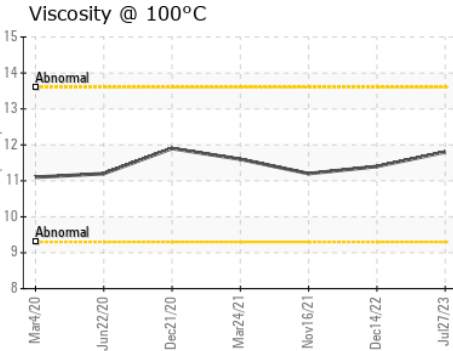
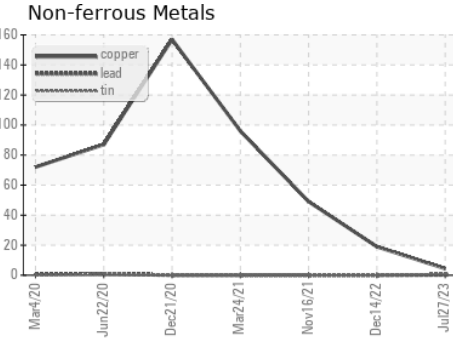
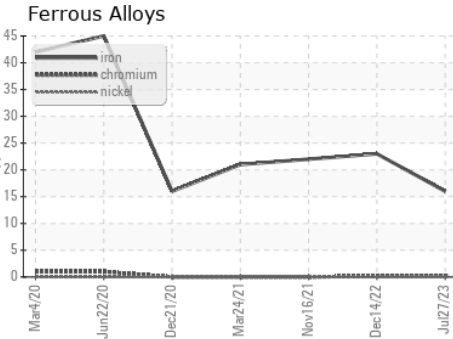
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.8	11.4	11.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0001156 **Received** : 11 Aug 2023
Lab Number : **05922654** **Diagnosed** : 14 Aug 2023
Unique Number : 10602601 **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: Tony
 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)