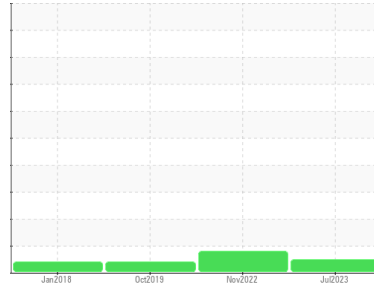




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Stoneway Concrete Renton
 Machine Id
[Stoneway Concrete Renton] 10-501
 Component
Hydraulic System
 Fluid
CHEVRON HYDRAULIC OIL AW ISO 46 (--- GAL)

DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition
 The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PE0001147	PE0000328	PE12293488
Sample Date	Client Info	06 Jul 2023	16 Nov 2022	07 Oct 2019
Machine Age	hrs Client Info	9720	8486	3048
Oil Age	hrs Client Info	9720	8486	3048
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		NORMAL	ATTENTION	MARGINAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	6	4	---
Iron	ppm ASTM D5185m >20	4	3	3
Chromium	ppm ASTM D5185m >10	0	0	0
Nickel	ppm ASTM D5185m >10	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m	0	0	<1
Aluminum	ppm ASTM D5185m >10	<1	<1	0
Lead	ppm ASTM D5185m >10	0	0	0
Copper	ppm ASTM D5185m >75	8	9	10
Tin	ppm ASTM D5185m >10	0	<1	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	0	0	0
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	0	<1	0
Manganese	ppm ASTM D5185m	0	0	---
Magnesium	ppm ASTM D5185m	0	0	1
Calcium	ppm ASTM D5185m	34	31	31
Phosphorus	ppm ASTM D5185m	340	337	298
Zinc	ppm ASTM D5185m	398	382	372
Sulfur	ppm ASTM D5185m	1311	1238	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	1	1	2
Sodium	ppm ASTM D5185m	<1	<1	0
Potassium	ppm ASTM D5185m >20	0	0	1

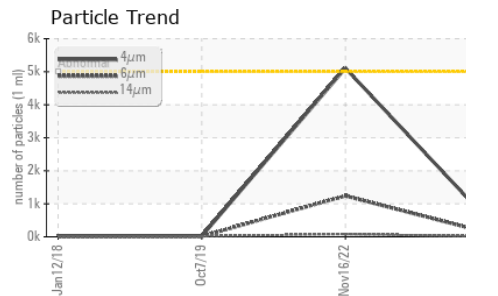
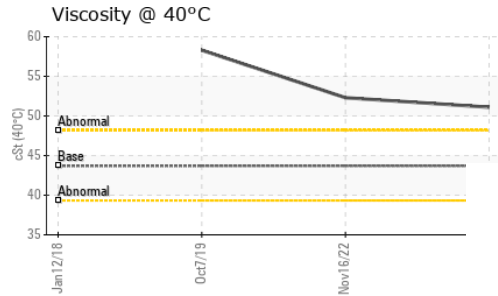
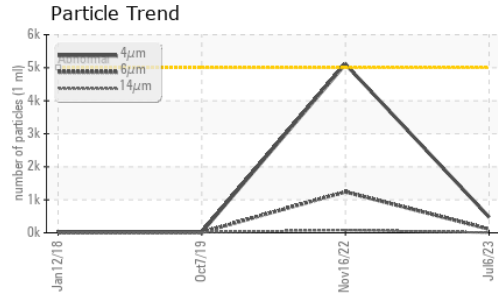
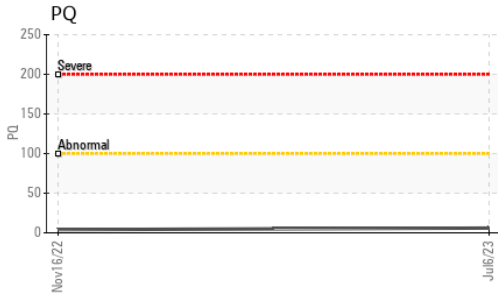
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	476	▲ 5108	18
Particles >6µm	ASTM D7647 >1300	112	1240	17
Particles >14µm	ASTM D7647 >160	7	81	15
Particles >21µm	ASTM D7647 >40	0	13	---
Particles >38µm	ASTM D7647 >10	0	1	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	16/14/10	▲ 20/17/14	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.40	0.35	0.62

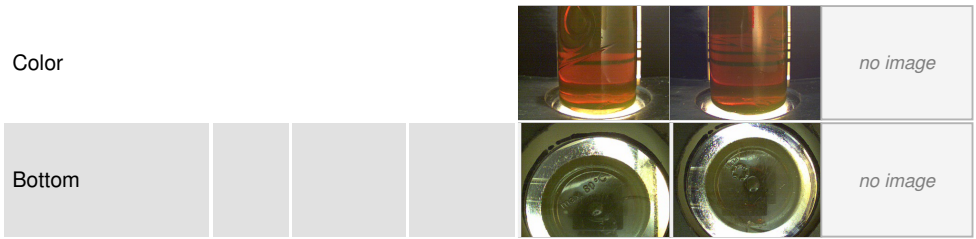
OIL ANALYSIS REPORT



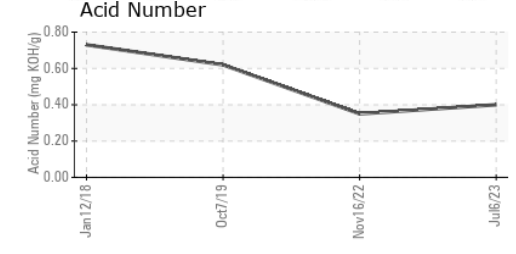
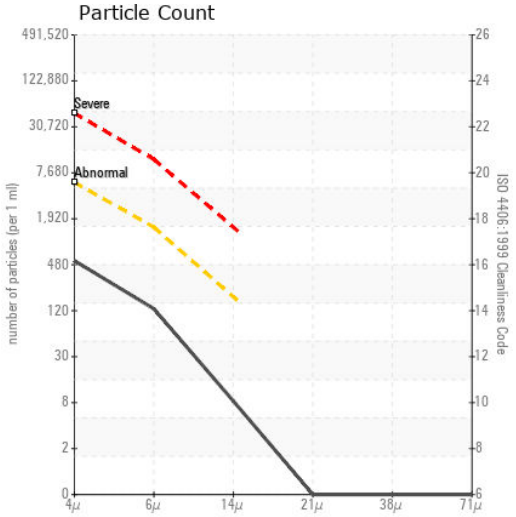
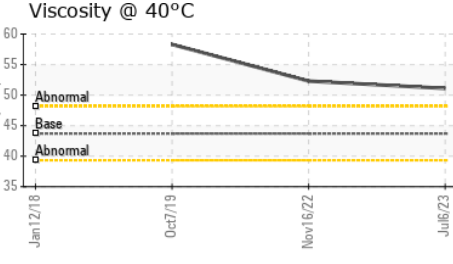
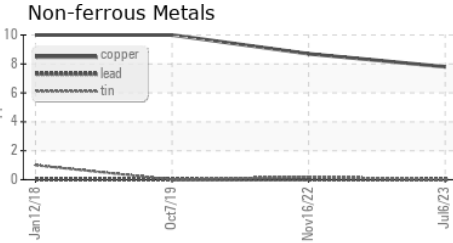
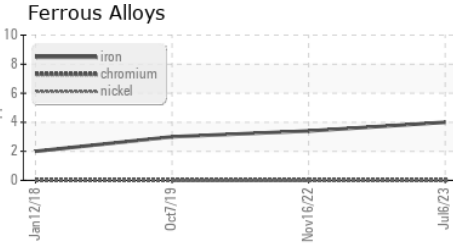
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	43.7	51.1	52.3 ▲ 58.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0001147 **Received** : 20 Jul 2023
Lab Number : 05903705 **Diagnosed** : 24 Jul 2023
Unique Number : 10565061 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

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

Certificate L2367
 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)