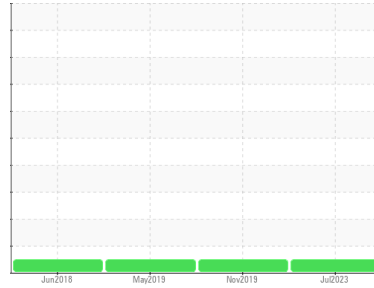




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
GM Seattle Off Road Shop
 Machine Id
[GM Seattle Off Road Shop] 26-523
 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
 There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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	PE0002198	PE12291792	PE12292002
Sample Date	Client Info	17 Jul 2023	12 Nov 2019	06 May 2019
Machine Age	hrs Client Info	7662	5650	4676
Oil Age	hrs Client Info	7662	1474	500
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	12	---	---
Iron	ppm ASTM D5185m >20	6	4	4
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	<1	1
Aluminum	ppm ASTM D5185m >10	2	0	0
Lead	ppm ASTM D5185m >10	0	0	0
Copper	ppm ASTM D5185m >75	8	6	3
Tin	ppm ASTM D5185m >10	0	0	0
Antimony	ppm ASTM D5185m	---	0	---
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	1	---
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	<1	---	---
Magnesium	ppm ASTM D5185m	0	1	1
Calcium	ppm ASTM D5185m	63	50	50
Phosphorus	ppm ASTM D5185m	340	338	339
Zinc	ppm ASTM D5185m	383	417	403
Sulfur	ppm ASTM D5185m	1065	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	2	1	2
Sodium	ppm ASTM D5185m	<1	4	0
Potassium	ppm ASTM D5185m >20	0	0	5

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	1168	---	6772
Particles >6µm	ASTM D7647 >1300	234	---	2486
Particles >14µm	ASTM D7647 >160	16	---	526
Particles >21µm	ASTM D7647 >40	4	---	214
Particles >38µm	ASTM D7647 >10	0	---	45
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	17/15/11	15/14/11	20/18/16

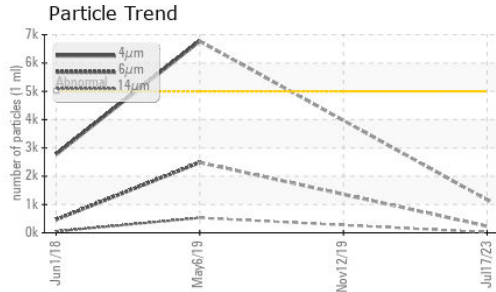
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.39	0.45	0.49

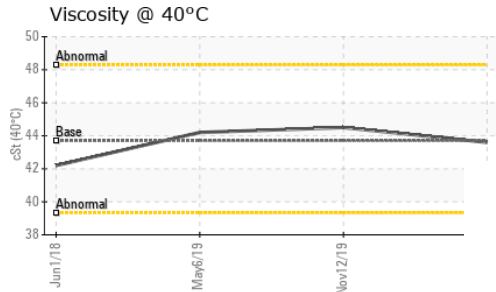
OIL ANALYSIS REPORT



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	---

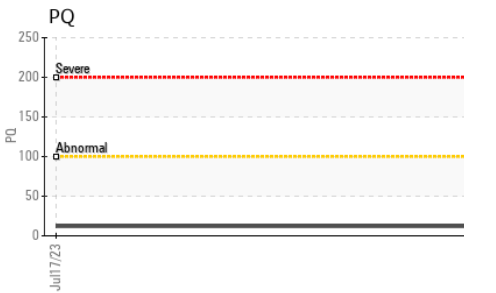


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	43.7	43.6	44.5	44.2

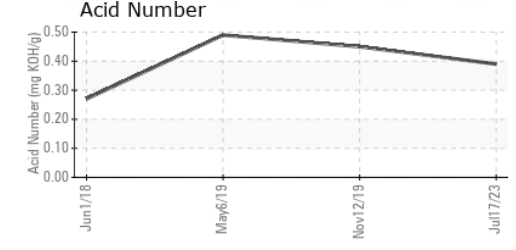
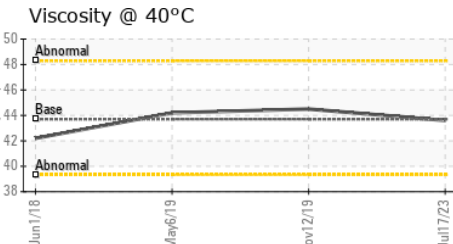
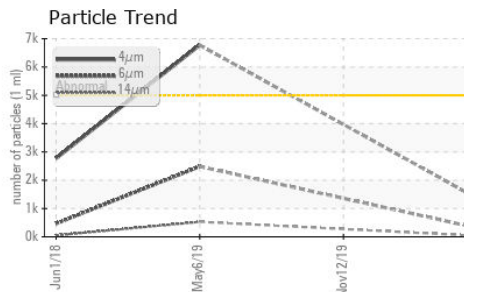
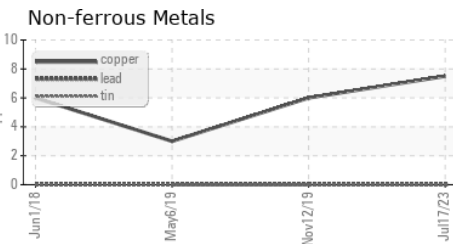
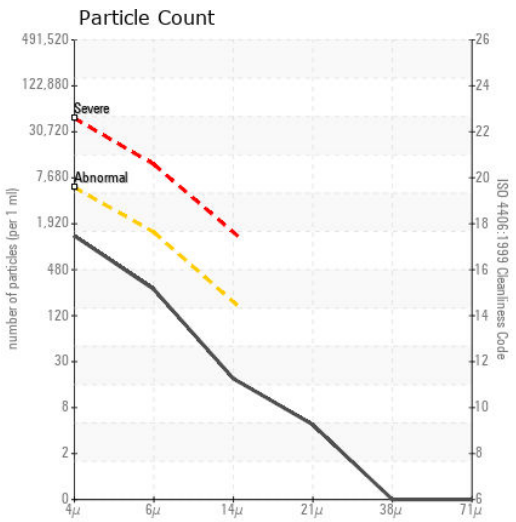
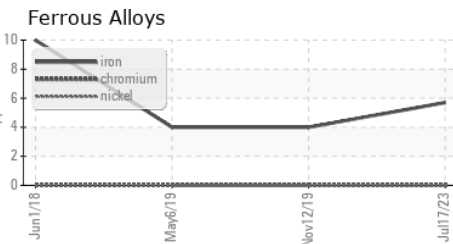


SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0002198 **Received** : 11 Aug 2023
Lab Number : 05922790 **Diagnosed** : 14 Aug 2023
Unique Number : 10602737 **Diagnostician** : Doug Bogart
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)
 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)

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