



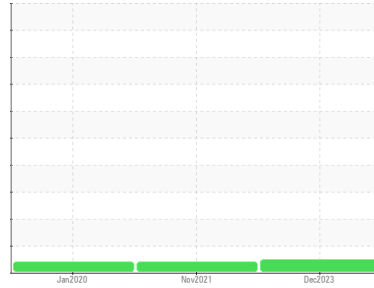
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
GM Seattle Off Road Shop
 Machine Id
[GM Seattle Off Road Shop] 24-867
 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		PE0002125	PE12291078	PE12291719
Sample Date	Client Info		15 Dec 2023	11 Nov 2021	06 Jan 2020
Machine Age	hrs	Client Info	7445	6432	5328
Oil Age	hrs	Client Info	7445	3996	2892
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	MARGINAL	MARGINAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		15	---	---
Iron	ppm	ASTM D5185m >20	10	16	8
Chromium	ppm	ASTM D5185m >10	1	2	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	4	1
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >75	4	2	3
Tin	ppm	ASTM D5185m >10	0	0	0
Antimony	ppm	ASTM D5185m	---	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	129	0
Manganese	ppm	ASTM D5185m	0	---	---
Magnesium	ppm	ASTM D5185m	1	686	1
Calcium	ppm	ASTM D5185m	31	1378	28
Phosphorus	ppm	ASTM D5185m	471	746	410
Zinc	ppm	ASTM D5185m	227	904	201
Sulfur	ppm	ASTM D5185m	700	---	---

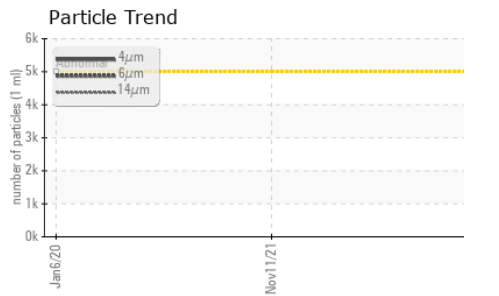
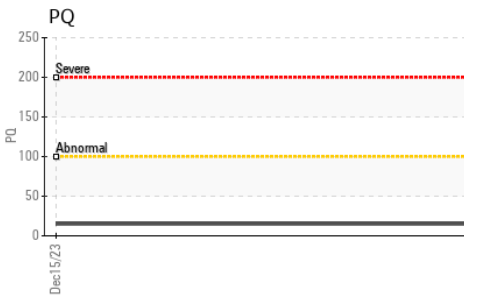
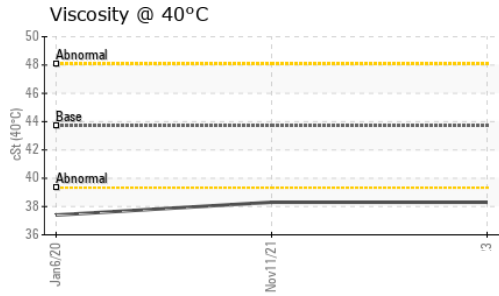
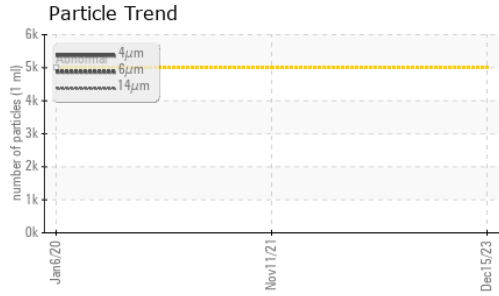
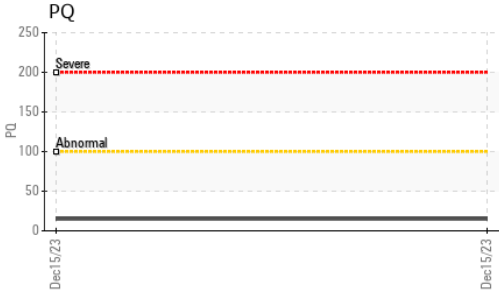
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	2	6	2
Sodium	ppm	ASTM D5185m	0	7	8
Potassium	ppm	ASTM D5185m >20	<1	1	1

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	1364	---	---
Particles >6µm	ASTM D7647	>1300	372	---	---
Particles >14µm	ASTM D7647	>160	50	---	---
Particles >21µm	ASTM D7647	>40	14	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/16/13	18/14/10	19/18/15

OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.23	0.22	0.28

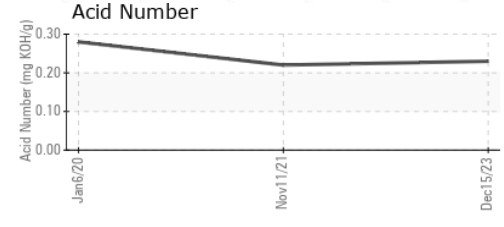
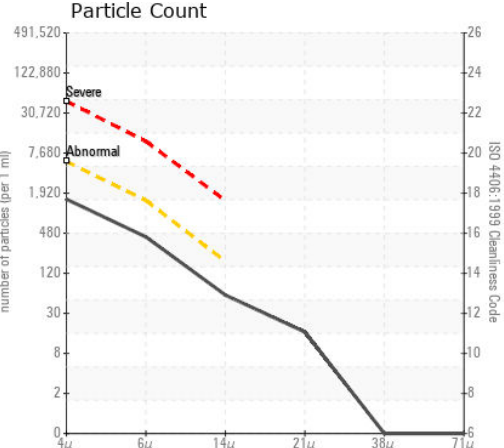
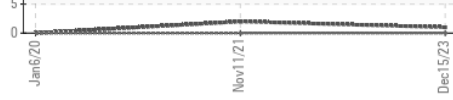
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	38.3	▲ 38.3	▲ 37.4

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. : PE0002125 **Received** : 12 Jan 2024
Lab Number : 06060149 **Diagnosed** : 16 Jan 2024
Unique Number : 10831531 **Diagnostician** : Don Baldrige
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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