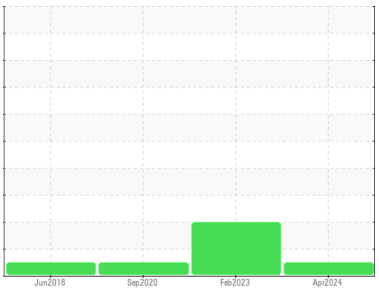
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
GM Seattle Off Raod Shop
Machine Id
[GM Seattle Off Raod Shop] 24-588
Component
Hydraulic System
Fluid
{not provided} (--- 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		**PE0003079**	PE0001781	PE12291490
Sample Date		Client Info		**12 Apr 2024**	23 Feb 2023	09 Sep 2020
Machine Age	hrs	Client Info		**3527**	3070	1993
Oil Age	hrs	Client Info		**3527**	3070	1993
Oil Changed		Client Info		**Not Changd**	Oil Added	Not Changd
Sample Status				**NORMAL**	ABNORMAL	NORMAL

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**	7	---
Iron	ppm	ASTM D5185m	>20	**7**	7	6
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>10	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**<1**	0	<1
Aluminum	ppm	ASTM D5185m	>10	**3**	2	1
Lead	ppm	ASTM D5185m	>10	**<1**	<1	1
Copper	ppm	ASTM D5185m	>75	**28**	25	29
Tin	ppm	ASTM D5185m	>10	**<1**	<1	0
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	2	2
Barium	ppm	ASTM D5185m		**0**	1	1
Molybdenum	ppm	ASTM D5185m		**1**	1	2
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m		**7**	7	9
Calcium	ppm	ASTM D5185m		**1285**	1437	2109
Phosphorus	ppm	ASTM D5185m		**500**	489	549
Zinc	ppm	ASTM D5185m		**603**	626	689
Sulfur	ppm	ASTM D5185m		**3625**	3783	---

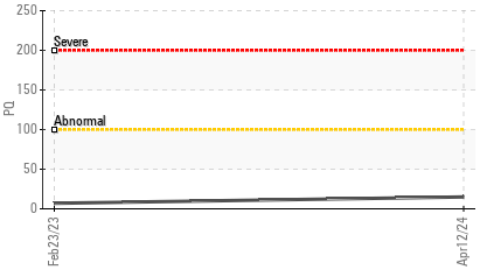
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**6**	5	6
Sodium	ppm	ASTM D5185m		**0**	2	5
Potassium	ppm	ASTM D5185m	>20	**2**	2	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**307**	▲ 30113	---
Particles >6µm		ASTM D7647	>1300	**73**	▲ 5550	---
Particles >14µm		ASTM D7647	>160	**11**	▲ 214	---
Particles >21µm		ASTM D7647	>40	**3**	▲ 48	---
Particles >38µm		ASTM D7647	>10	**0**	0	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**15/13/11**	▲ 22/20/15	19/16/12

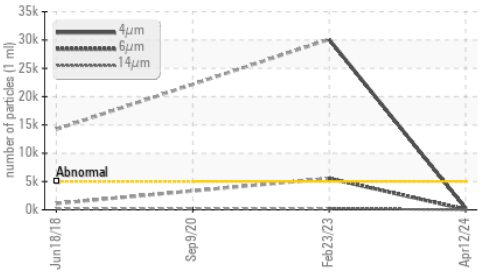
OIL ANALYSIS REPORT

PetroCard MORE THAN JUST FUEL.

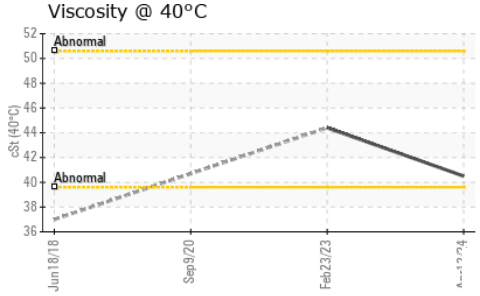
PQ



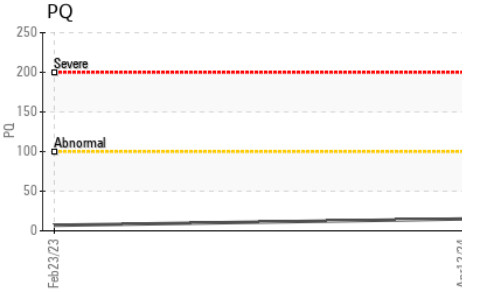
Particle Trend



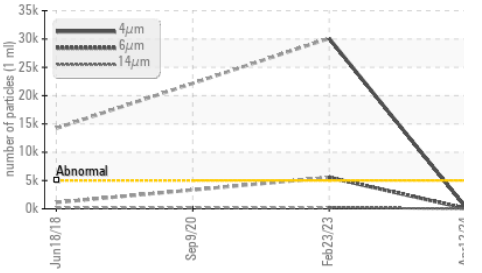
Viscosity @ 40°C



PQ



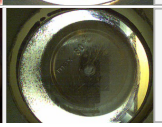
Particle Trend



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.30**	0.42	0.84

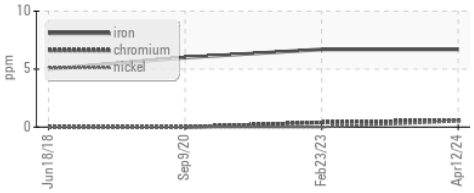
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**40.5**	44.4	---

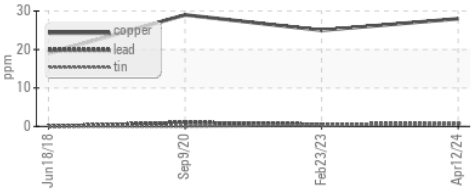
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

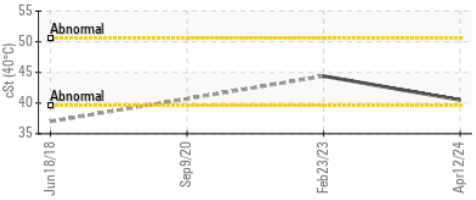
Ferrous Alloys



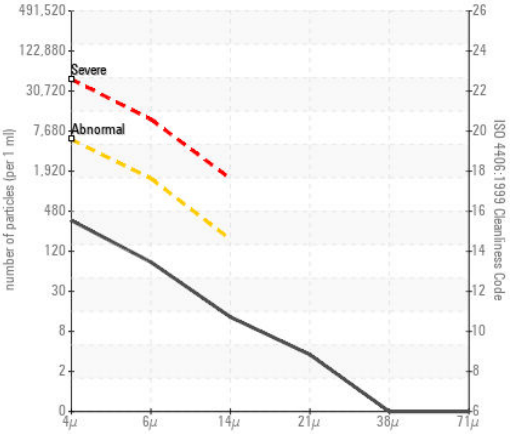
Non-ferrous Metals



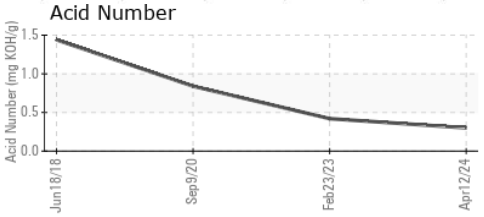
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0003079
Lab Number : 06156858
Unique Number : 10992281
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Angela Borella

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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SEATTLE, WA
US 98108
Contact: Jesse Patterson
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F:

Report Id: GARSEA [WUSCAR] 06156858 (Generated: 04/24/2024 17:04:46) Rev: 1

Submitted By: Dump Truck Shop - Zack