CONST

PetroCard™ MORE THAN JUST FUEL.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GM Seattle Off Raod Shop
Machine Id
[GM Seattle Off Raod Shop] 28-232
Component
Transmission (Auto)
Fluid
CAT TDTO 30W (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

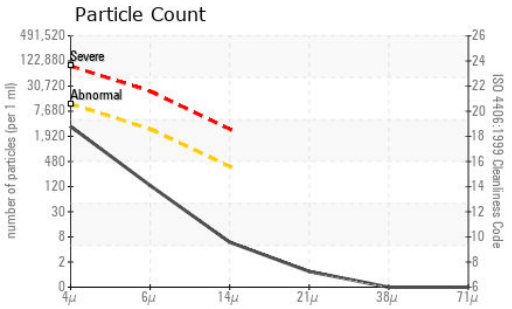
CONTAMINATION

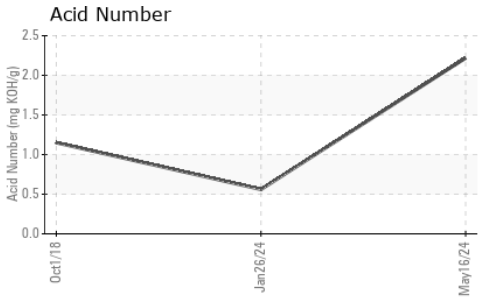
There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

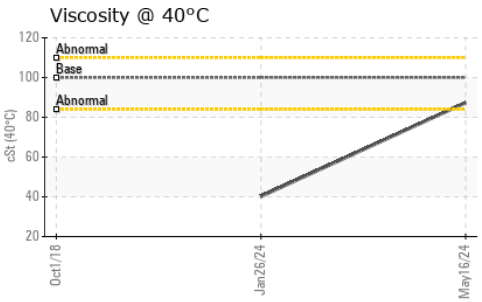
FLUID CONDITION

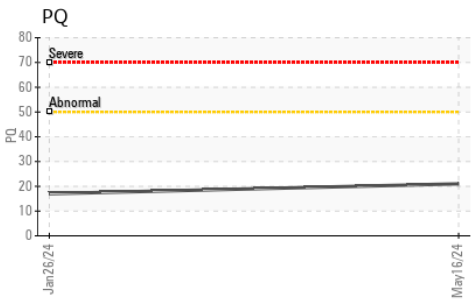
The AN level is acceptable for the time in service.

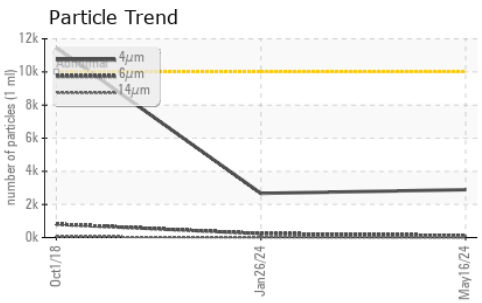
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0003030	PE0003231	PE12292244
Sample Date		Client Info		16 May 2024	26 Jan 2024	01 Oct 2018
Machine Age	hrs	Client Info		2780	2606	0
Oil Age	hrs	Client Info		2780	1548	0
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184	>50	21	17	---
Iron	ppm	ASTM D5185m	>160	23	8	1
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	1
Aluminum	ppm	ASTM D5185m	>50	2	2	0
Lead	ppm	ASTM D5185m	>50	1	<1	0
Copper	ppm	ASTM D5185m	>225	<1	8	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	5	1	1
Potassium	ppm	ASTM D5185m	>20	3	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	2892	2667	11455
Particles >6µm		ASTM D7647	>2500	113	237	804
Particles >14µm		ASTM D7647	>320	5	17	44
Particles >21µm		ASTM D7647	>80	1	6	13
Particles >38µm		ASTM D7647	>20	0	0	3
Particles >71µm		ASTM D7647	>4	0	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/14/10	19/15/11	21/17/13
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	---
Sodium	ppm	ASTM D5185m		<1	0	1
Boron	ppm	ASTM D5185m		4	0	---
Barium	ppm	ASTM D5185m		2	1	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m		11	4	3
Calcium	ppm	ASTM D5185m	2980	3379	194	172
Phosphorus	ppm	ASTM D5185m	1100	1031	795	727
Zinc	ppm	ASTM D5185m	1270	1271	1187	913
Sulfur	ppm	ASTM D5185m		7705	2174	---
Acid Number (AN)	mg KOH/g	ASTM D8045		2.218	0.56	1.15
Visc @ 40°C	cSt	ASTM D445	100	87.4	40.2	---

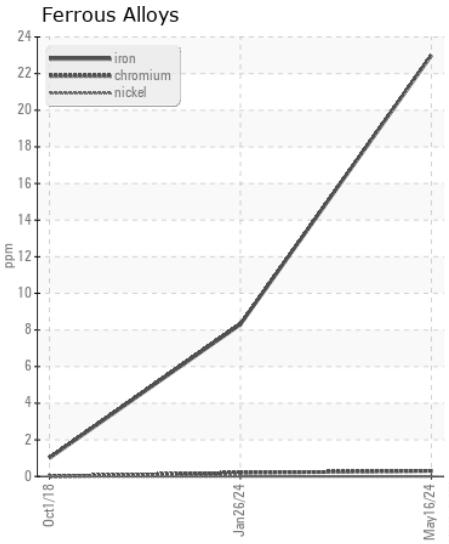


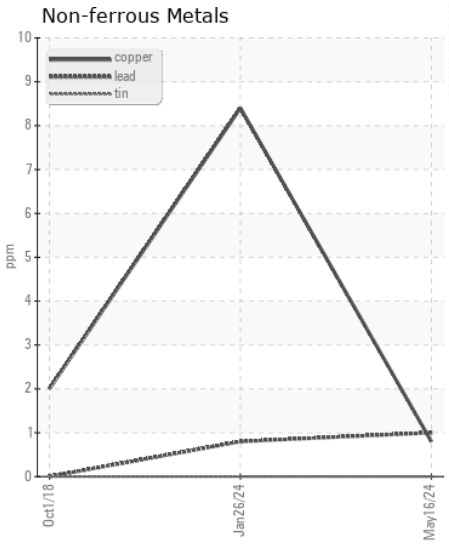


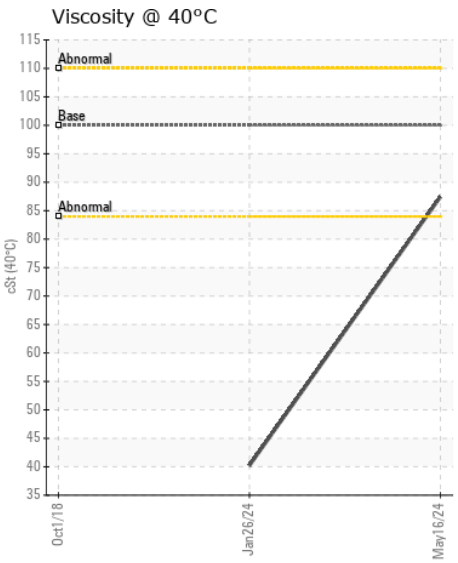


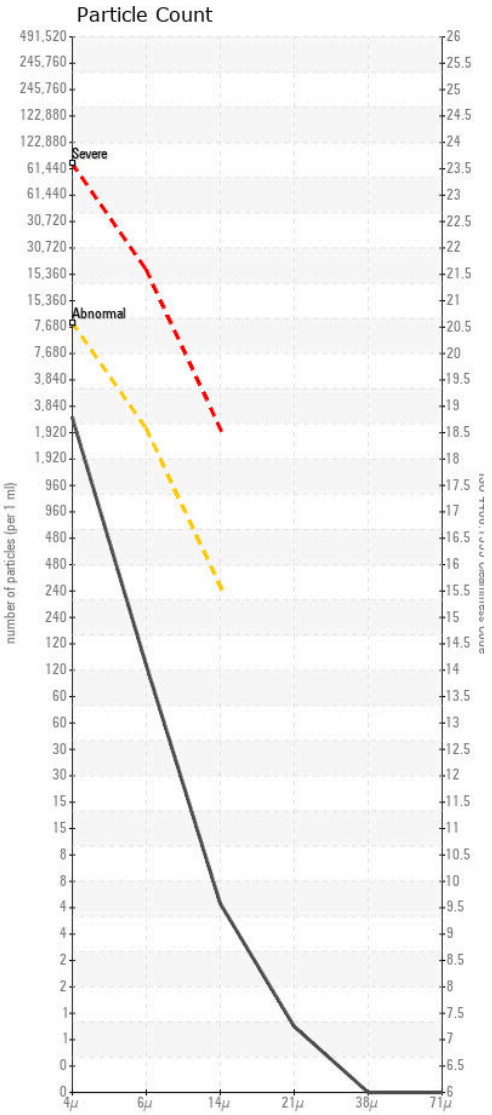


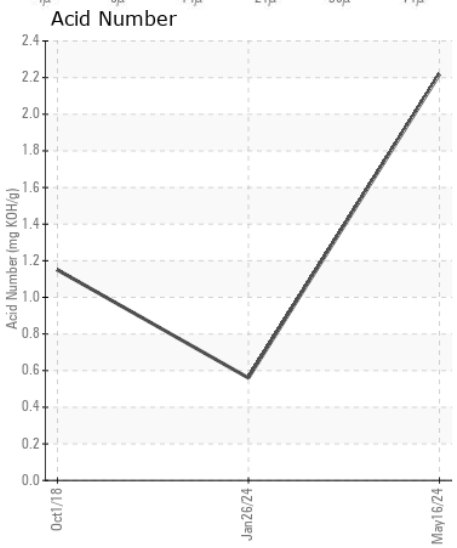












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PE0003030
Lab Number : 06210677
Unique Number : 11083541
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

Received : 14 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Jonathan Hester

Certificate L2367

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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)