OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
BLDG 24 STEERING LAB
Machine Id
10339925 MTS PERFORMANCE
Component
Hydraulic System
Fluid
MOBIL DTE 25 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

All component wear rates are normal.

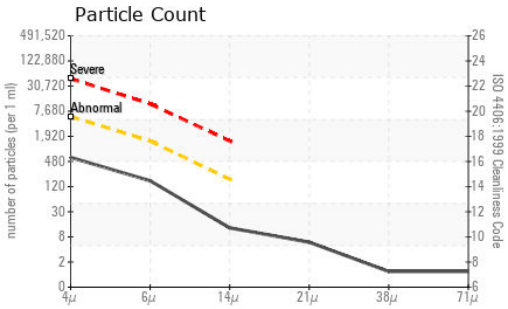
CONTAMINATION

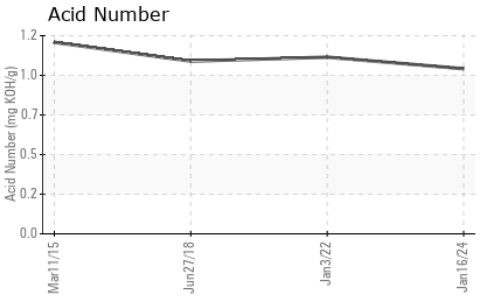
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

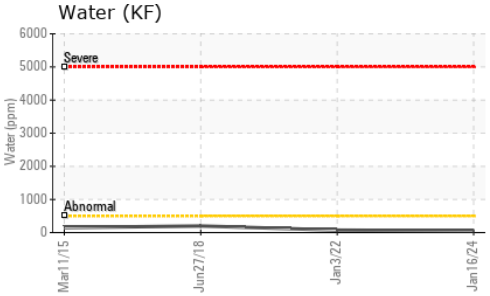
FLUID CONDITION

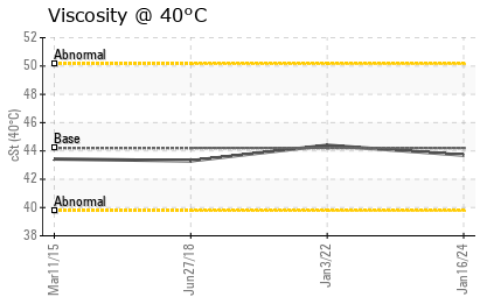
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

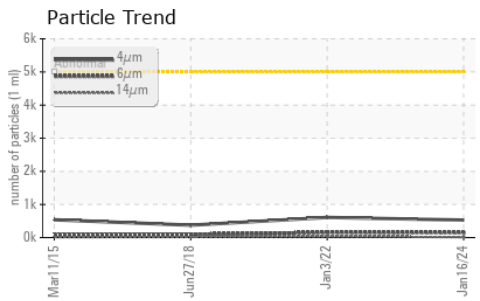
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0859309**	WC0375770	WCI2321272
Sample Date		Client Info		**16 Jan 2024**	03 Jan 2022	27 Jun 2018
Machine Age	hrs	Client Info		**3361**	2842	2030
Oil Age	hrs	Client Info		**3361**	2842	2030
Filter Age	hrs	Client Info		**2000**	792	1100
Oil Changed		Client Info		**Filtered**	Not Changd	Not Changd
Filter Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>20	**0**	0	2
Chromium	ppm	ASTM D5185m	>20	**<1**	0	0
Nickel	ppm	ASTM D5185m	>20	**5**	6	5
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m	>20	**1**	<1	<1
Lead	ppm	ASTM D5185m	>20	**0**	<1	0
Copper	ppm	ASTM D5185m	>20	**13**	12	9
Tin	ppm	ASTM D5185m	>20	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**1**	0	1
Water	%	ASTM D6304	>0.05	**0.005**	0.007	0.020
ppm Water	ppm	ASTM D6304	>500	**57**	73.9	200
Particles >4µm		ASTM D7647	>5000	**528**	608	374
Particles >6µm		ASTM D7647	>1300	**146**	155	97
Particles >14µm		ASTM D7647	>160	**11**	29	17
Particles >21µm		ASTM D7647	>40	**5**	15	9
Particles >38µm		ASTM D7647	>10	**1**	1	0
Particles >71µm		ASTM D7647	>3	**1**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**16/14/11**	16/14/12	16/14/11
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**0**	4	3
Boron	ppm	ASTM D5185m		**0**	0	<1
Barium	ppm	ASTM D5185m		**2**	0	<1
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m		**2**	2	0
Calcium	ppm	ASTM D5185m		**112**	136	127
Phosphorus	ppm	ASTM D5185m		**454**	525	475
Zinc	ppm	ASTM D5185m		**612**	726	660
Sulfur	ppm	ASTM D5185m		**5513**	5987	2265
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.00**	1.070	1.046
Visc @ 40°C	cSt	ASTM D445	44.2	**43.7**	44.4	43.3

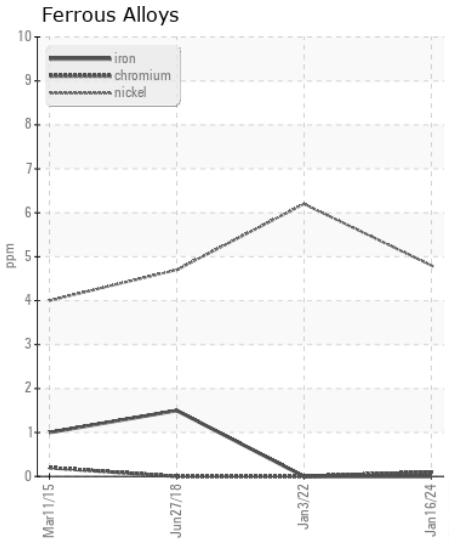


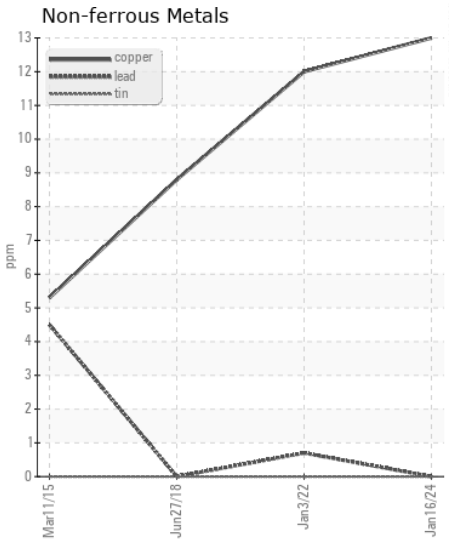


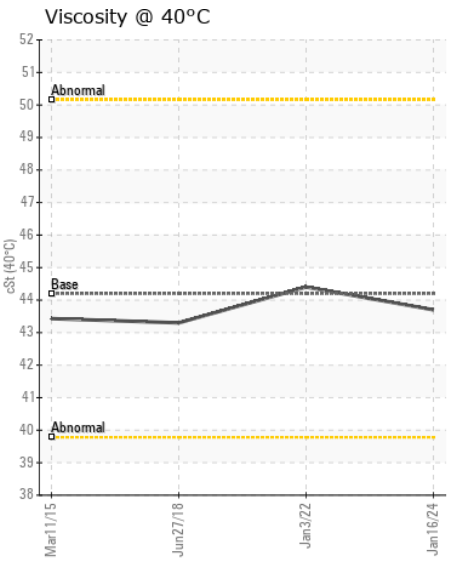


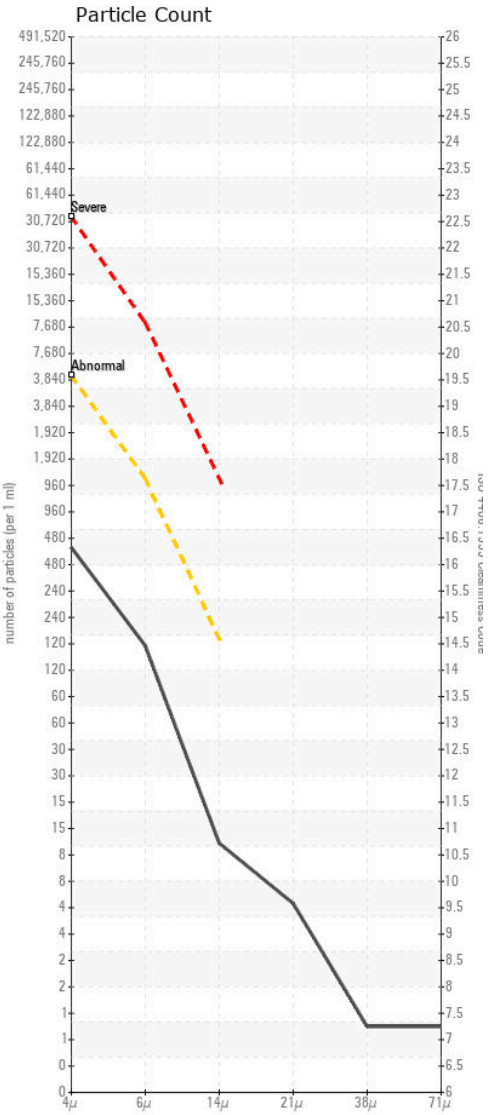


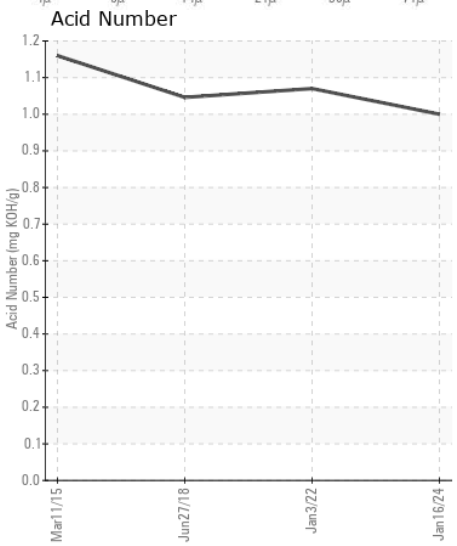












Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513			**GENERAL MOTORS - MILFORD PROVING GROUND**
Sample No.	: WC0859309	**Received**	: 14 Feb 2024	3300 GENERAL MOTORS RD, BUILDING 94
Lab Number	: 06089553	**Tested**	: 15 Feb 2024	MILFORD, MI
Unique Number	: 10876998	**Diagnosed**	: 15 Feb 2024 - Wes Davis	US 48380
Test Package	: PLANT			Contact: NICHOLAS PALM

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)

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