



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GMC T-40
 Component
Front Diesel Engine
 Fluid
SAFETY-KLEEN ECOPOWER 15W40 CJ-4 (23 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0772778	WC0772802	WC0550231
Sample Date		Client Info		26 Mar 2024	23 Mar 2023	12 Apr 2022
Machine Age	kms	Client Info		260540	246220	230711
Oil Age	kms	Client Info		13821	15986	14805
Filter Age	kms	Client Info		13821	15986	14805
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	17	12	14
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	21
Copper	ppm	ASTM D5185(m)	>330	1	2	4
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

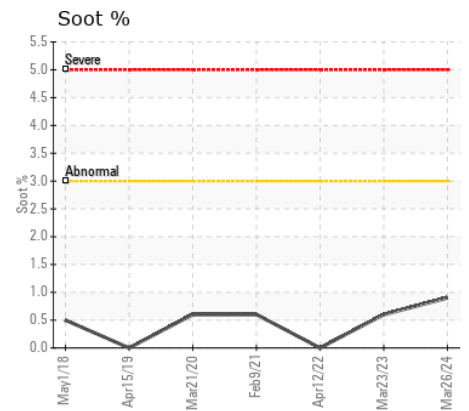
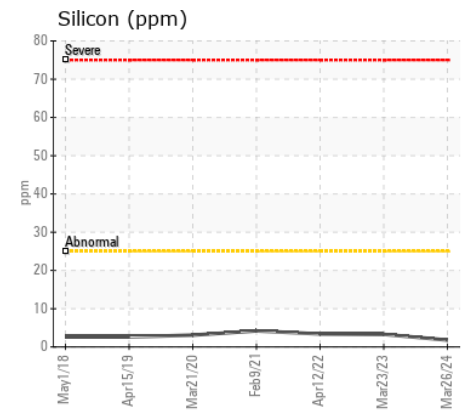
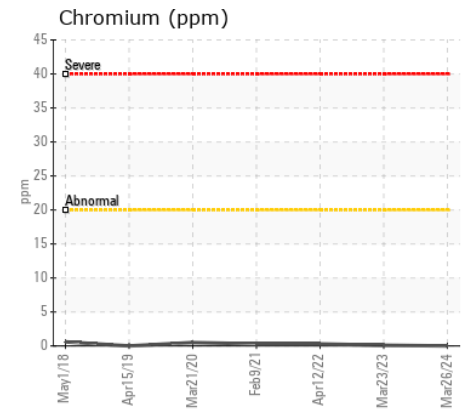
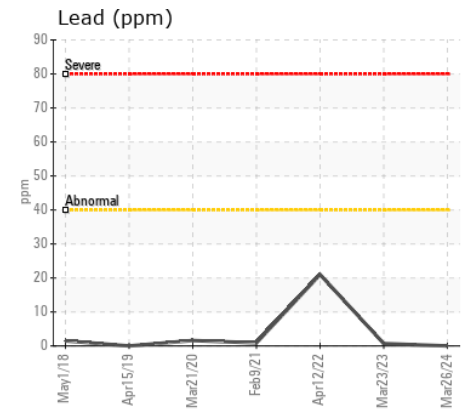
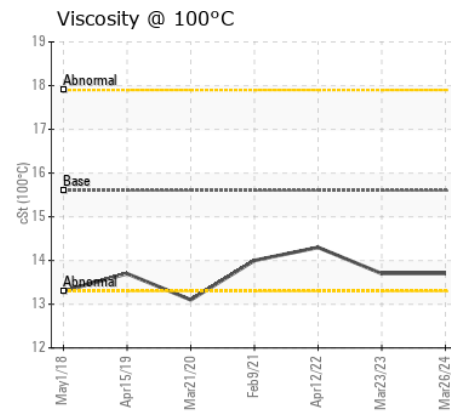
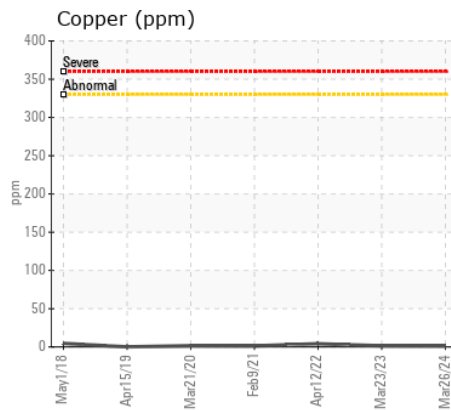
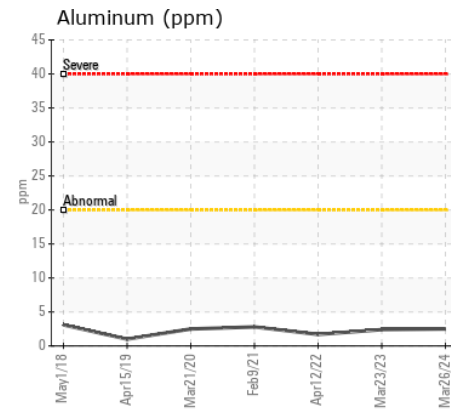
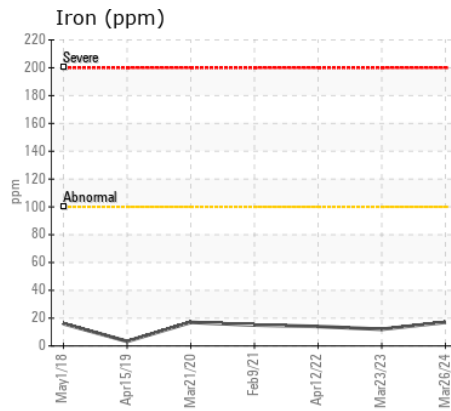
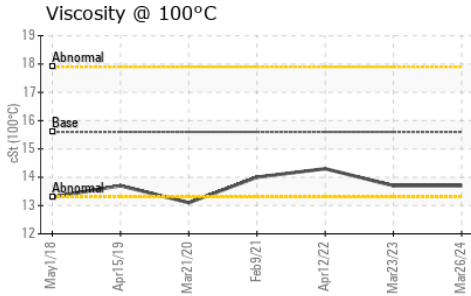
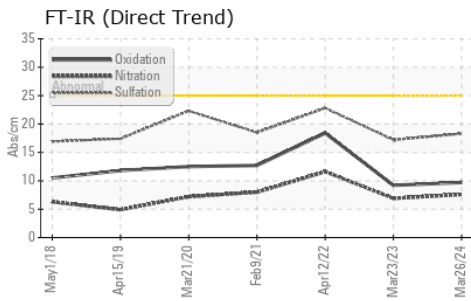
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	1	1	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.9	0.6	0
Nitration	Abs/cm	ASTM D7624*	>20	7.6	6.9	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	17.2	22.8
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	▲.2%

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	3
Boron	ppm	ASTM D5185(m)	0	11	16	21
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	13	22	84
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	825	41	51	414
Calcium	ppm	ASTM D5185(m)	925	2264	2326	1794
Phosphorus	ppm	ASTM D5185(m)	850	865	951	989
Zinc	ppm	ASTM D5185(m)	1000	1015	1029	1182
Sulfur	ppm	ASTM D5185(m)	2250	2906	3025	2968
Oxidation	Abs/.1mm	ASTM D7414*	>25	9.7	9.2	18.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.7	13.7	14.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0772778
Lab Number : 02629513
Unique Number : 5762645
Test Package : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.