



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GMC PORT GENERATOR
 Component
Port Genset
 Fluid
CASTROL MHP 154 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0064941	PC0018042	PC0034462
Sample Date		Client Info		14 Feb 2024	02 Feb 2022	26 Feb 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	4	4	11
Chromium	ppm	ASTM D5185(m)	>4	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>5	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>12	1	1	1
Lead	ppm	ASTM D5185(m)	>17	3	2	8
Copper	ppm	ASTM D5185(m)	>70	33	5	18
Tin	ppm	ASTM D5185(m)	>15	1	3	▲ 14
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

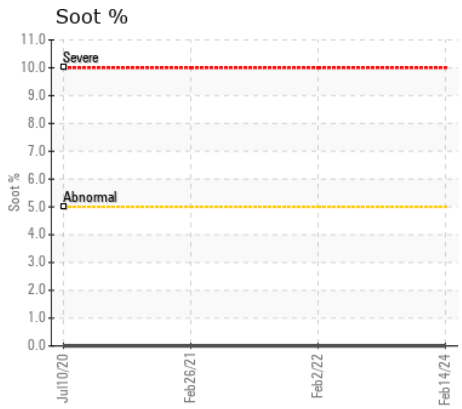
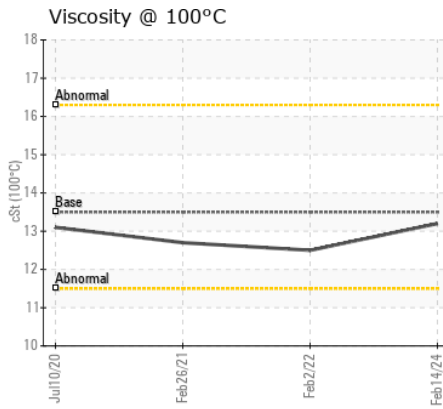
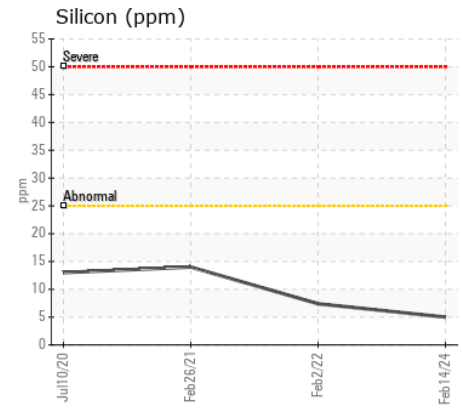
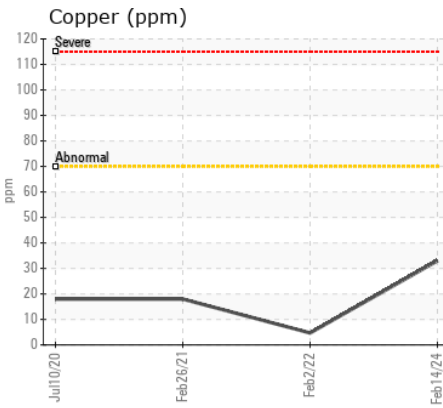
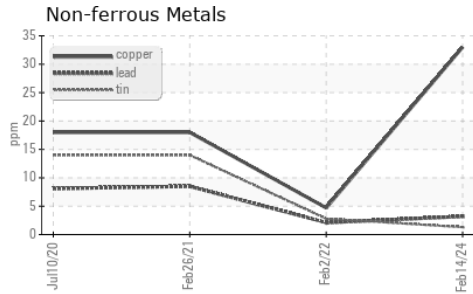
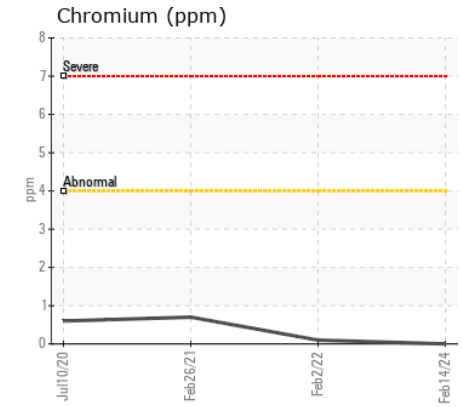
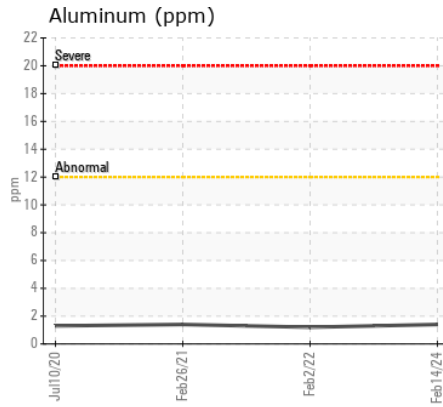
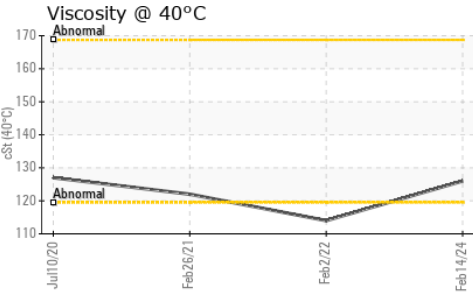
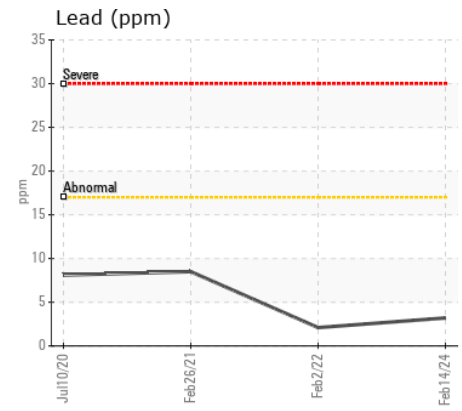
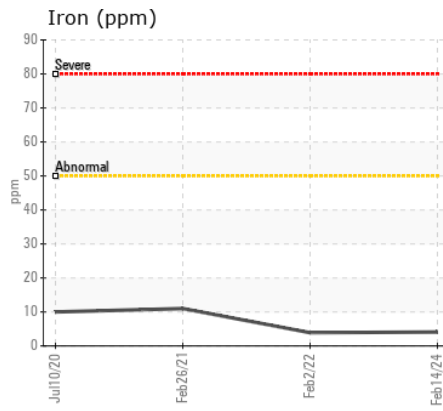
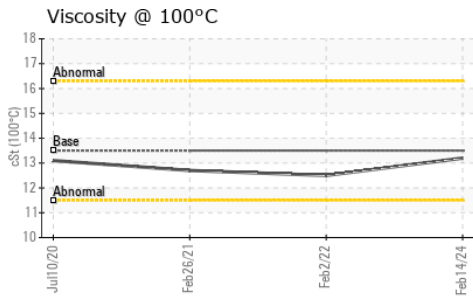
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	7	14
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.8	7.5	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.7	14.6	13.8
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		1	2	5
Boron	ppm	ASTM D5185(m)		5	11	7
Barium	ppm	ASTM D5185(m)		0	<1	2
Molybdenum	ppm	ASTM D5185(m)		2	3	2
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		50	50	32
Calcium	ppm	ASTM D5185(m)		5047	4777	5131
Phosphorus	ppm	ASTM D5185(m)		872	868	848
Zinc	ppm	ASTM D5185(m)		966	976	1026
Sulfur	ppm	ASTM D5185(m)		9940	9731	10496
Oxidation	Abs/.1mm	ASTM D7414*	>25	7.1	6.9	7.3
Visc @ 40°C	cSt	ASTM D7279(m)		126	114	122
Visc @ 100°C	cSt	ASTM D7279(m)	13.5	13.2	12.5	12.7
Viscosity Index (VI)	Scale	ASTM D2270*		98	100	95



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0064941 **Received** : 20 Feb 2024
Lab Number : 02616625 **Tested** : 20 Feb 2024
Unique Number : 5733735 **Diagnosed** : 20 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI)

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.

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T:
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