



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
EPIROC ST18 SCP203

Component
Diesel Engine

Fluid
MOBIL 1 TURBO DIESEL TRUCK 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0904167	WC0886139	WC0848076
Sample Date		Client Info		15 Feb 2024	15 Jan 2024	11 Aug 2023
Machine Age	hrs	Client Info		534	311	10010
Oil Age	hrs	Client Info		250	311	250
Filter Age	hrs	Client Info		250	311	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	10	15	61
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	1	2	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	3	11
Lead	ppm	ASTM D5185(m)	>40	1	2	88
Copper	ppm	ASTM D5185(m)	>330	2	5	49
Tin	ppm	ASTM D5185(m)	>15	<1	2	5
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

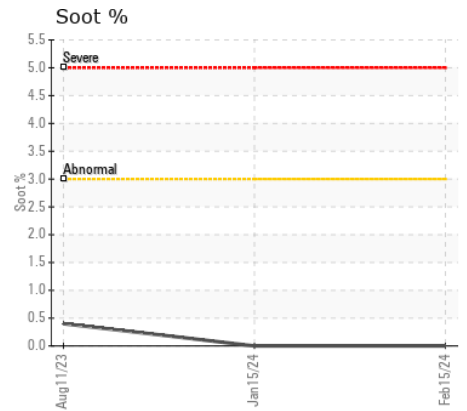
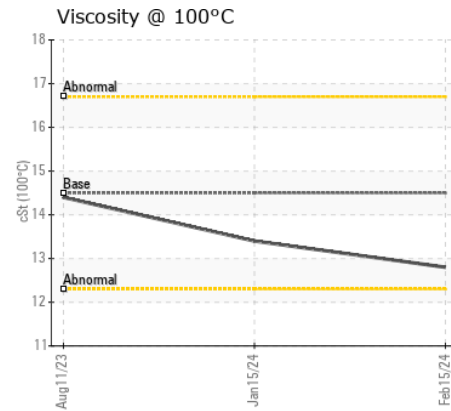
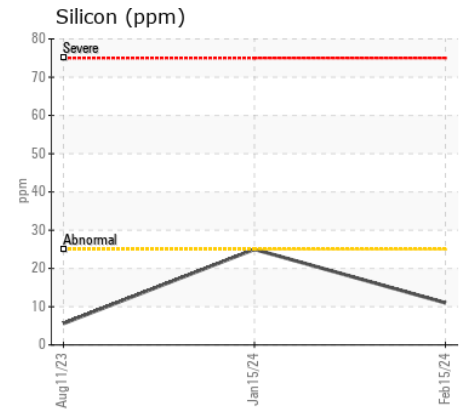
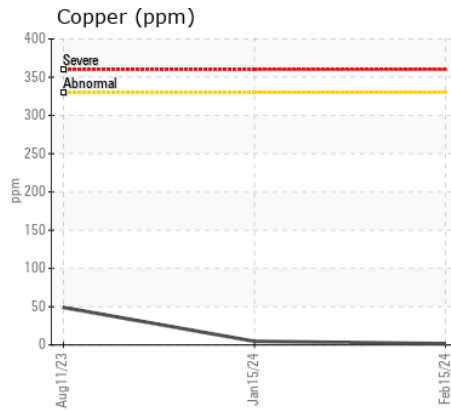
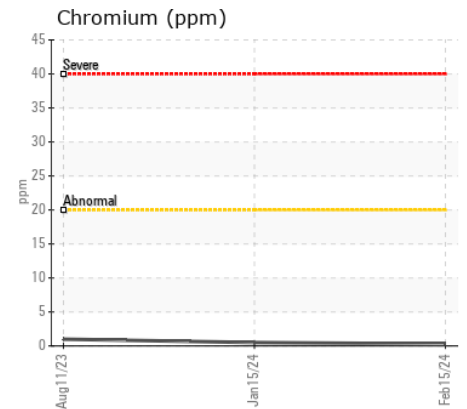
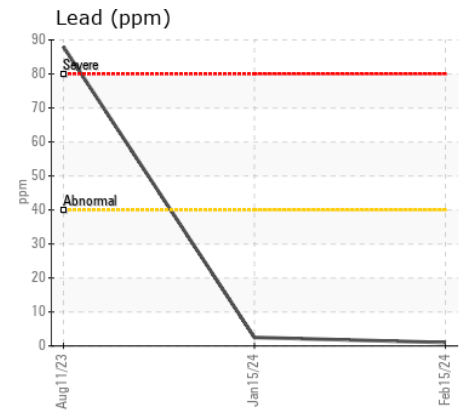
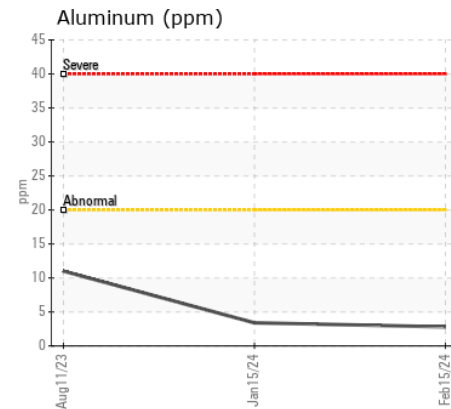
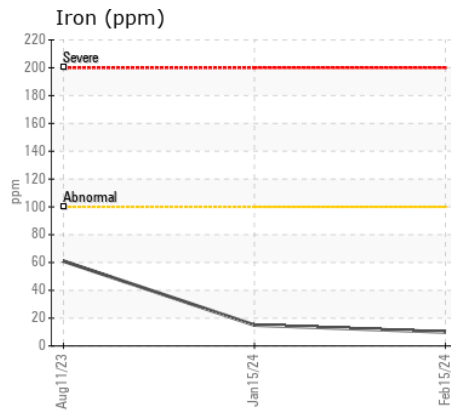
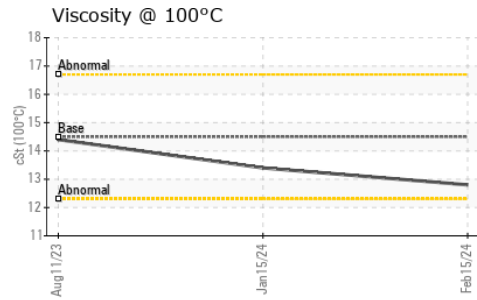
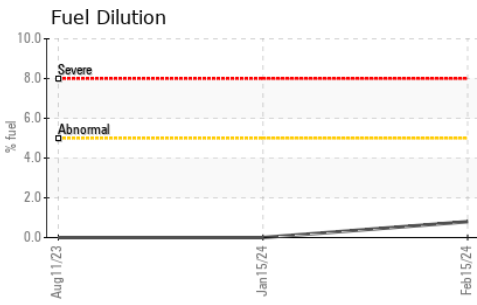
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	11	25	6
Potassium	ppm	ASTM D5185(m)	>20	2	7	6
Fuel	%	ASTM D7593*	>5	0.8	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0	0	0.4
Nitration	Abs/cm	ASTM D7624*	>20	6.5	6.7	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	20.9	28.5
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	NONE	---	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---	NONE
Appearance	scalar	Visual*	NORML	NORML	---	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	5	17
Boron	ppm	ASTM D5185(m)		57	105	53
Barium	ppm	ASTM D5185(m)		3	13	0
Molybdenum	ppm	ASTM D5185(m)		32	9	21
Manganese	ppm	ASTM D5185(m)		<1	2	<1
Magnesium	ppm	ASTM D5185(m)		400	123	157
Calcium	ppm	ASTM D5185(m)		1801	2269	2133
Phosphorus	ppm	ASTM D5185(m)	1100	797	924	1042
Zinc	ppm	ASTM D5185(m)		909	1105	1201
Sulfur	ppm	ASTM D5185(m)		2370	2991	2827
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.8	16.9	24.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	12.8	13.4	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0904167
Lab Number : 02616955
Unique Number : 5734065
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel, Visual)

Received : 21 Feb 2024
Tested : 23 Feb 2024
Diagnosed : 23 Feb 2024 - Kevin Marson

Agnico Eagle Canada
 1350 Government Rd. W, MACASSA COMPLEX
 Kirkland Lake, ON
 CA P2N 3J1
 Contact: Mike Campbell
 mike.campbell@agnicoeagle.com
 T: (705)567-5208
 F: (705)567-5221

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.