



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
EPIROC ST7 SCP209
Component
Diesel Engine
Fluid
PETRO CANADA 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0916357	WC0920151	WC0886065
Sample Date		Client Info		07 May 2024	16 Mar 2024	08 Jan 2024
Machine Age	hrs	Client Info		6310	6063	5910
Oil Age	hrs	Client Info		250	250	100
Filter Age	hrs	Client Info		250	250	100
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	12	60	37
Chromium	ppm	ASTM D5185(m)	>20	<1	4	3
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	10	8
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	2	7	5
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

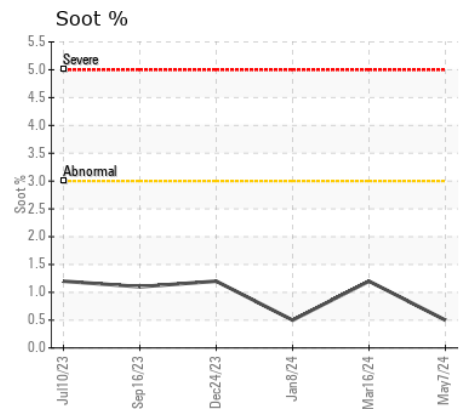
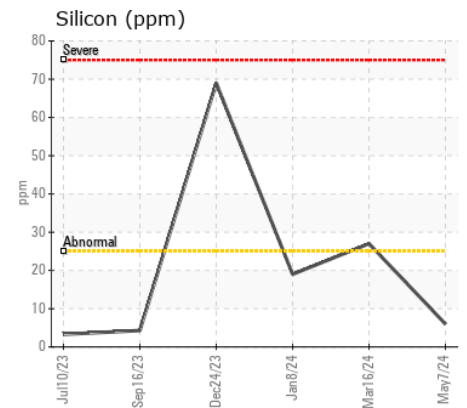
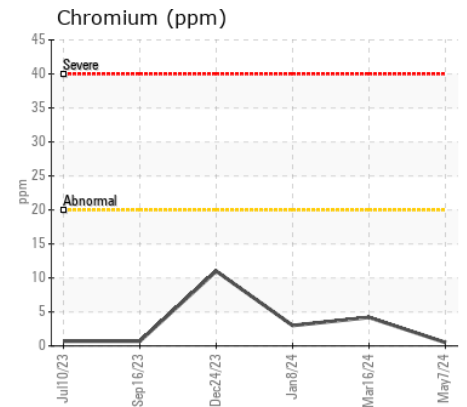
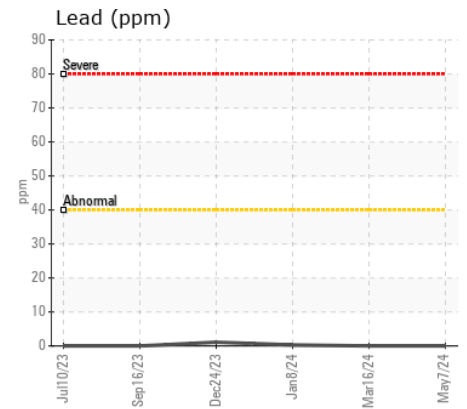
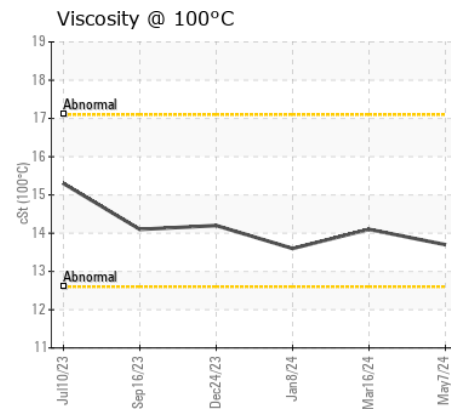
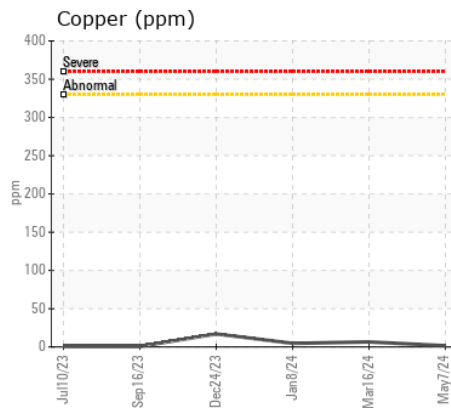
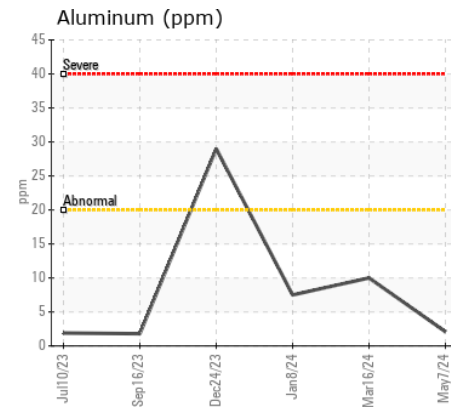
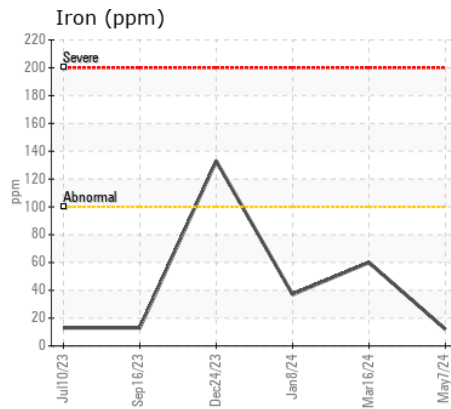
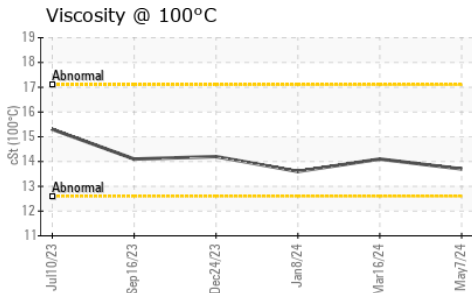
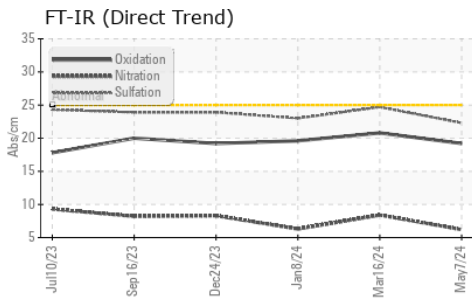
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	▲ 27	19
Potassium	ppm	ASTM D5185(m)	>20	<1	2	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	1.2	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.2	8.4	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	24.7	23.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		2	4	4
Boron	ppm	ASTM D5185(m)		52	37	46
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		36	41	39
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)		475	522	506
Calcium	ppm	ASTM D5185(m)		1640	1693	1659
Phosphorus	ppm	ASTM D5185(m)		676	721	745
Zinc	ppm	ASTM D5185(m)		818	869	843
Sulfur	ppm	ASTM D5185(m)		2096	2009	2158
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	20.8	19.6
Visc @ 100°C	cSt	ASTM D7279(m)		13.7	14.1	13.6



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0916357
Lab Number : 02634466
Unique Number : 5775619
Test Package : MOB 1

Received : 10 May 2024
Tested : 10 May 2024
Diagnosed : 10 May 2024 - Wes Davis

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.