



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		WC0886065	WC0886140	WC0848155
Sample Date		Client Info		08 Jan 2024	24 Dec 2023	16 Sep 2023
Machine Age	hrs	Client Info		5910	5831	5505
Oil Age	hrs	Client Info		100	0	250
Filter Age	hrs	Client Info		100	0	250
Oil Changed		Client Info		Not Changed	Changed	N/A
Filter Changed		Client Info		Not Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	37	▲ 133	13
Chromium	ppm	ASTM D5185(m)	>20	3	11	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	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	8	▲ 29	2
Lead	ppm	ASTM D5185(m)	>40	<1	1	0
Copper	ppm	ASTM D5185(m)	>330	5	17	<1
Tin	ppm	ASTM D5185(m)	>15	<1	1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

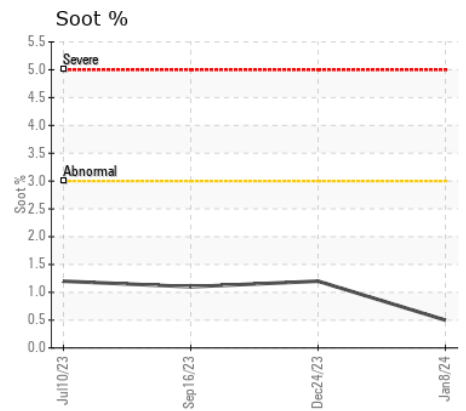
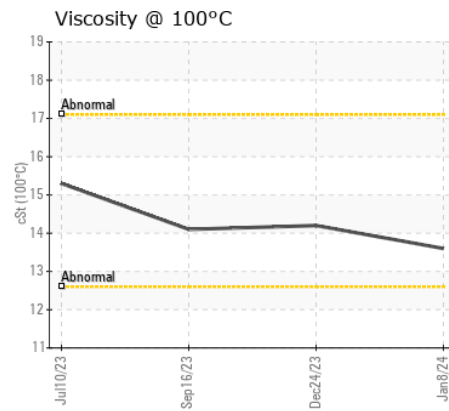
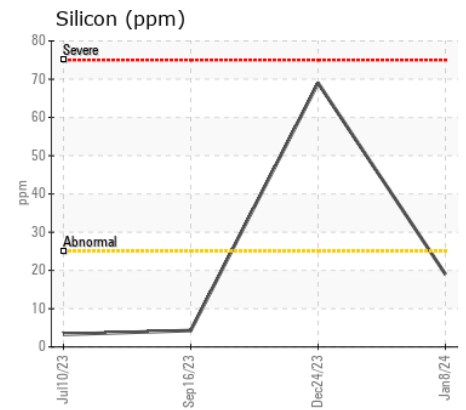
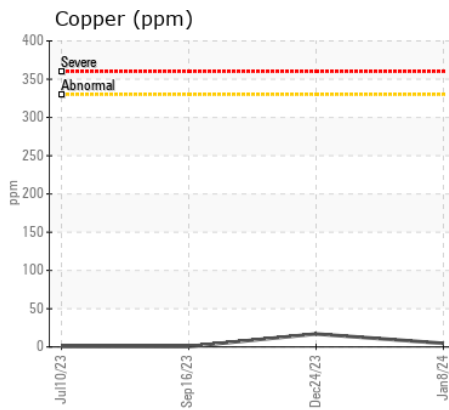
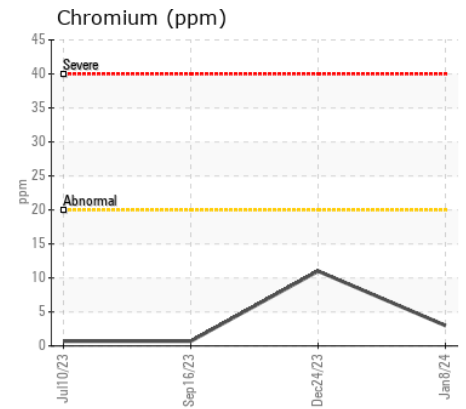
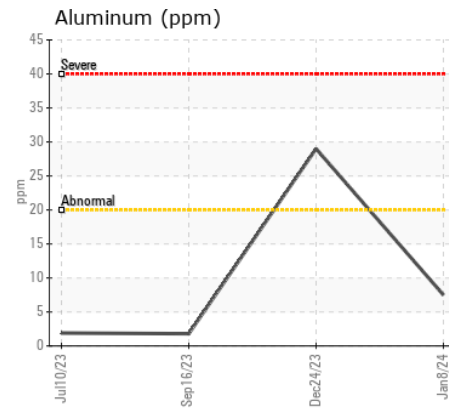
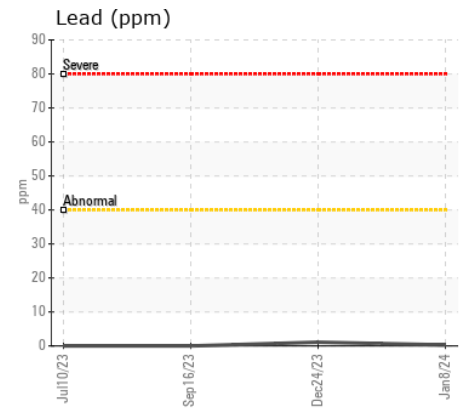
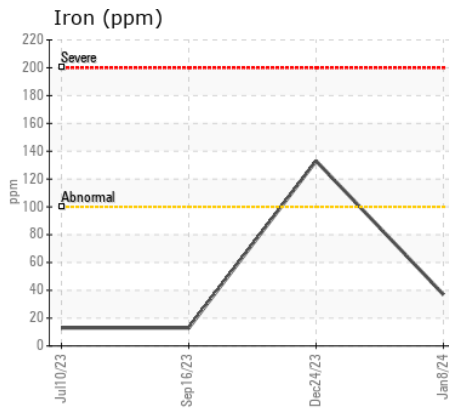
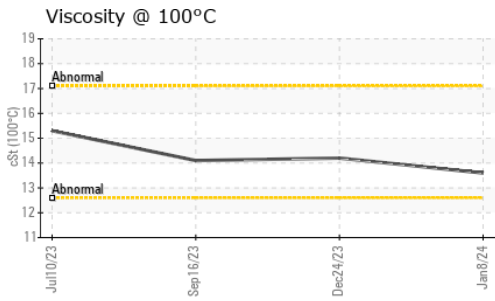
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	19	▲ 69	4
Potassium	ppm	ASTM D5185(m)	>20	2	0	<1
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	1.1
Nitration	Abs/cm	ASTM D7624*	>20	6.3	8.3	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	23.9	23.9
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)		4	8	3
Boron	ppm	ASTM D5185(m)		46	33	45
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		39	43	37
Manganese	ppm	ASTM D5185(m)		<1	1	<1
Magnesium	ppm	ASTM D5185(m)		506	579	460
Calcium	ppm	ASTM D5185(m)		1659	1675	1787
Phosphorus	ppm	ASTM D5185(m)		745	786	822
Zinc	ppm	ASTM D5185(m)		843	914	922
Sulfur	ppm	ASTM D5185(m)		2158	2229	2179
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.6	19.2	20.0
Visc @ 100°C	cSt	ASTM D7279(m)		13.6	14.2	14.1



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0886065 **Received** : 23 Jan 2024
Lab Number : 02610542 **Diagnosed** : 23 Jan 2024
Unique Number : 5711628 **Diagnostician** : Wes Davis
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.