

Machine Id
DR191
Component
Diesel Engine
Fluid
PETRO CANADA SUPREME SYNTHETIC 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088288	PC0078379	PC0078050
Sample Date		Client Info		30 Apr 2024	19 Dec 2023	25 Aug 2023
Machine Age	hrs	Client Info		1818	6911	1422
Oil Age	hrs	Client Info		0	250	250
Filter Age	hrs	Client Info		0	250	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	4	6	7
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

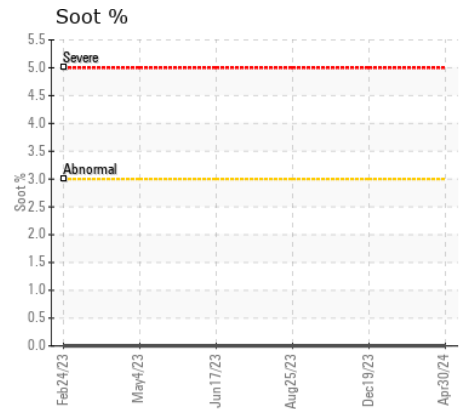
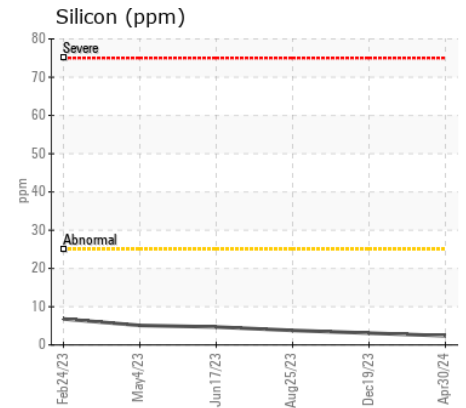
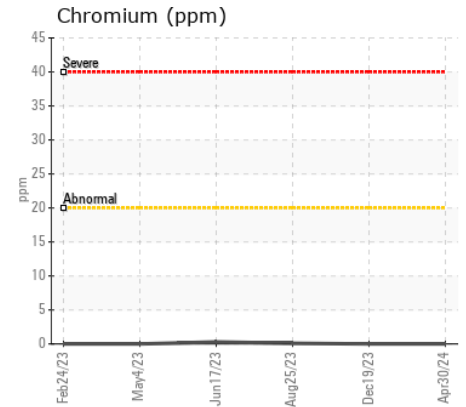
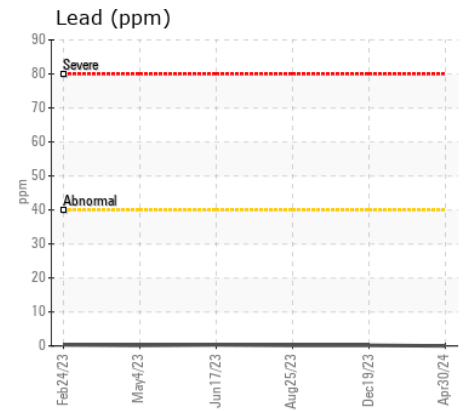
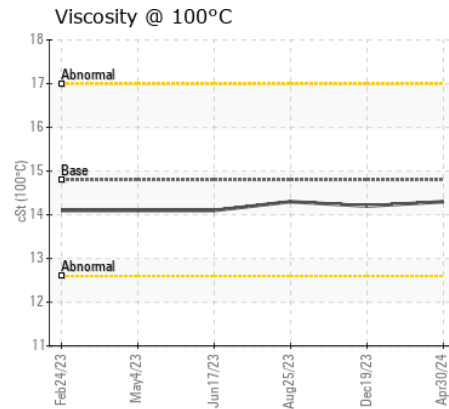
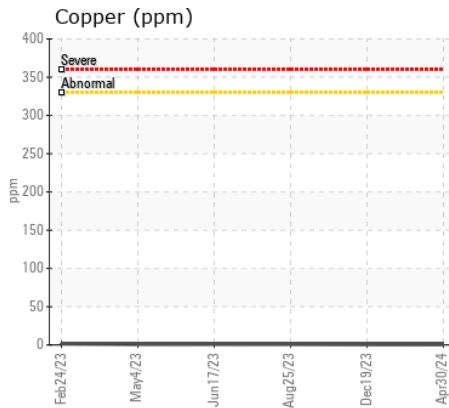
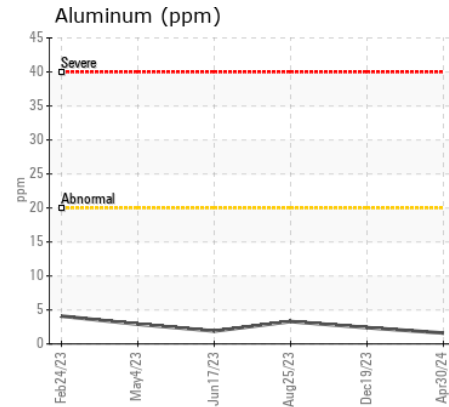
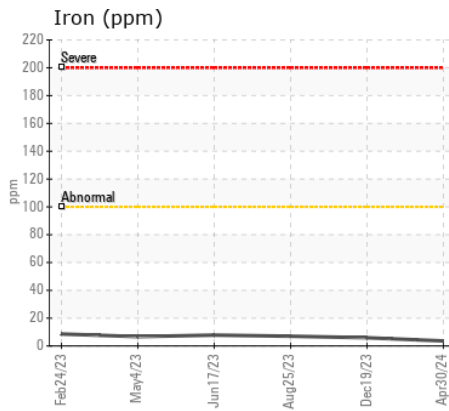
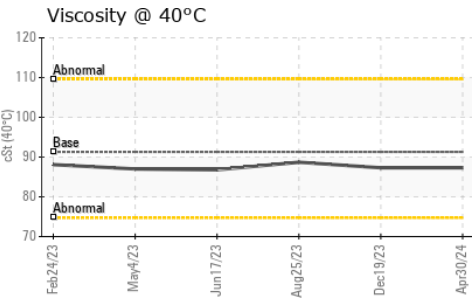
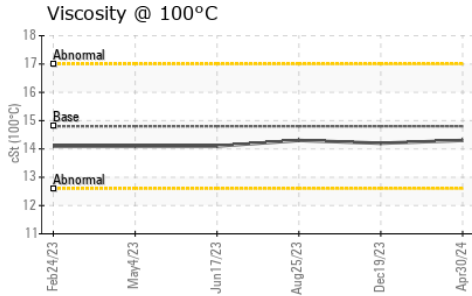
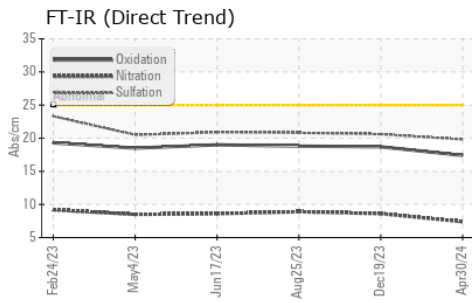
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	2	4	7
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	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.4	8.6	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	20.6	20.8
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	3	3
Boron	ppm	ASTM D5185(m)	190	44	29	26
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	79	54	55	57
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	564	1057	1057	1050
Calcium	ppm	ASTM D5185(m)	993	798	792	802
Phosphorus	ppm	ASTM D5185(m)	763	944	951	943
Zinc	ppm	ASTM D5185(m)	835	1128	1137	1127
Sulfur	ppm	ASTM D5185(m)	2536	2633	2748	2728
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.4	18.7	18.8
Visc @ 40°C	cSt	ASTM D7279(m)	91.3	87.3	87.3	88.7
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	14.3	14.2	14.3
Viscosity Index (VI)	Scale	ASTM D2270*	170	170	168	167



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088288
Lab Number : 02634524
Unique Number : 5775677
Test Package : MOB 1 (Additional Tests: KV40, VI)

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
 151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Shannon Abbott
 sabbott@gipi.com
 T: (905)750-5900
 F:

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.