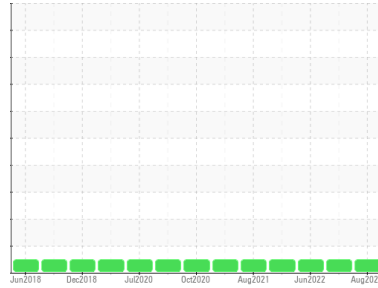


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
IHC 1015

Component
Diesel Engine

Fluid
PETRO CANADA 15W40 (12 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC423493	PC423494	PC423486
Sample Date	Client Info			24 Aug 2023	04 Nov 2022	24 Jun 2022
Machine Age	mls	Client Info		1819000	1875000	1756000
Oil Age	mls	Client Info		9000	10000	10000
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<1.0	<1.0	<1.0
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>165	7	11	10
Chromium	ppm	ASTM D5185(m)	>5	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	<1	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>150	3	4	4
Copper	ppm	ASTM D5185(m)	>90	7	<1	<1
Tin	ppm	ASTM D5185(m)	>5	1	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

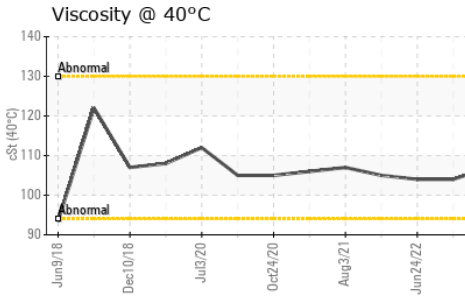
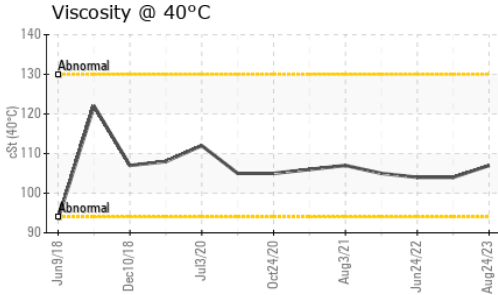
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		2	2	2
Barium	ppm	ASTM D5185(m)		1	0	0
Molybdenum	ppm	ASTM D5185(m)		59	59	58
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		998	944	957
Calcium	ppm	ASTM D5185(m)		1054	1050	1090
Phosphorus	ppm	ASTM D5185(m)		1088	1044	979
Zinc	ppm	ASTM D5185(m)		1215	1150	1202
Sulfur	ppm	ASTM D5185(m)		2703	2566	2625
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	10	5	10
Sodium	ppm	ASTM D5185(m)		2	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>7.5	0.1	0.3	0.5
Nitration	Abs/cm	ASTM D7624*	>20	5.2	6.4	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	20.5	18.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.8	14.9	13.3

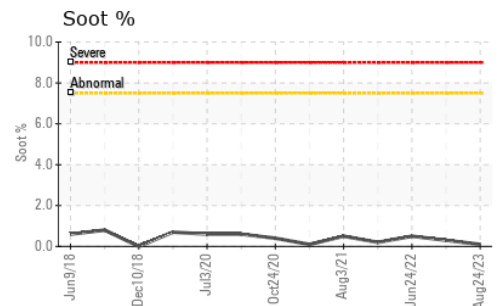
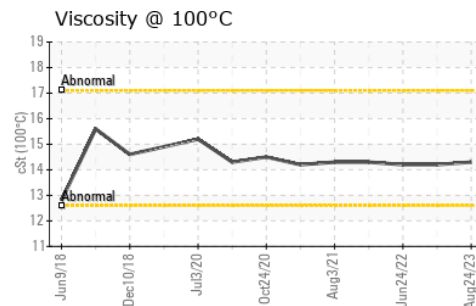
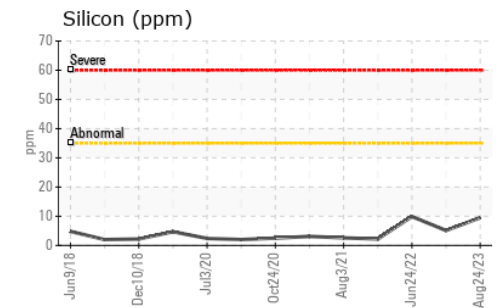
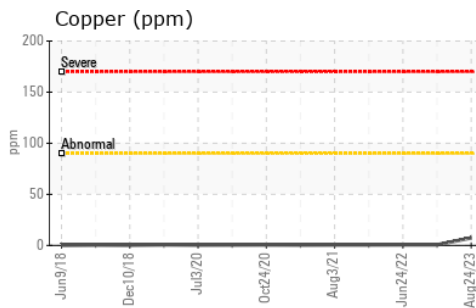
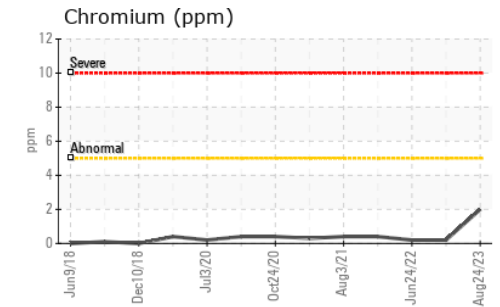
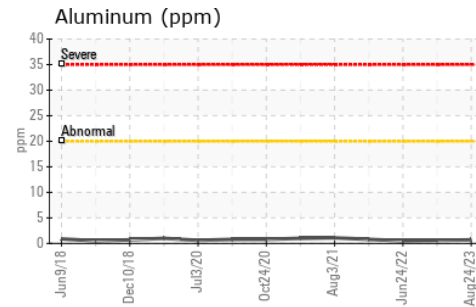
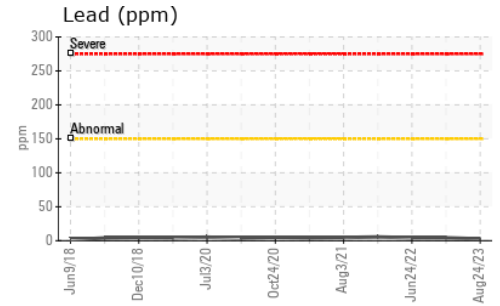
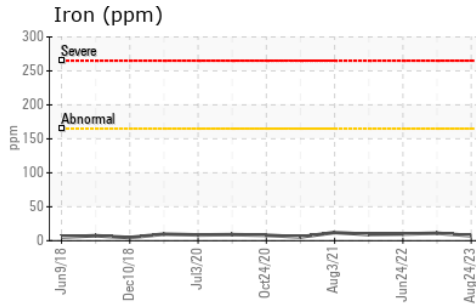
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	107	104	104
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	14.2	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	136	139	139

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC423493 **Received** : 28 Aug 2023
Lab Number : 02578699 **Diagnosed** : 29 Aug 2023
Unique Number : 5631759 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.