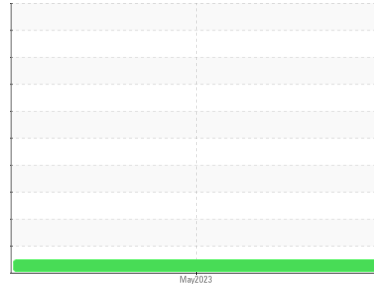


Area
GRUPO AUTOMOTRIZ CARAZA REACENA
Machine Id
INTERNATIONAL DT 466

Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)



DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
Metal levels are typical for a new component breaking in.

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

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		PC0069042	---	---
Sample Date	Client Info		15 May 2023	---	---
Machine Age	kms	Client Info	9200	---	---
Oil Age	kms	Client Info	0	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history 1	history 2
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m) >100	19	---	---
Chromium	ppm	ASTM D5185(m) >20	0	---	---
Nickel	ppm	ASTM D5185(m) >4	<1	---	---
Titanium	ppm	ASTM D5185(m)	<1	---	---
Silver	ppm	ASTM D5185(m) >3	0	---	---
Aluminum	ppm	ASTM D5185(m) >20	2	---	---
Lead	ppm	ASTM D5185(m) >40	<1	---	---
Copper	ppm	ASTM D5185(m) >330	1	---	---
Tin	ppm	ASTM D5185(m) >15	<1	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m) 0	3	---	---
Barium	ppm	ASTM D5185(m) 0	0	---	---
Molybdenum	ppm	ASTM D5185(m) 60	61	---	---
Manganese	ppm	ASTM D5185(m) 0	<1	---	---
Magnesium	ppm	ASTM D5185(m) 1010	944	---	---
Calcium	ppm	ASTM D5185(m) 1070	1115	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	1073	---	---
Zinc	ppm	ASTM D5185(m) 1270	1140	---	---
Sulfur	ppm	ASTM D5185(m) 2060	2650	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

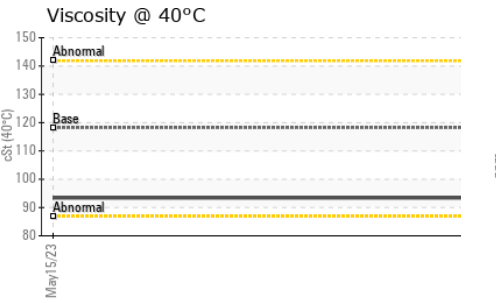
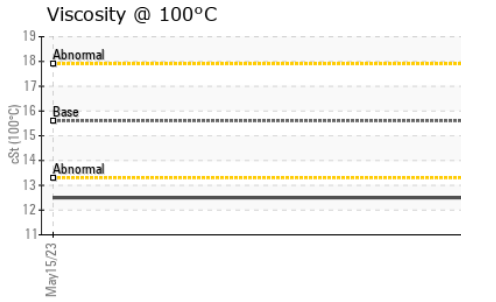
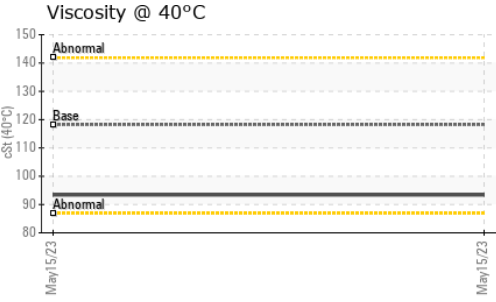
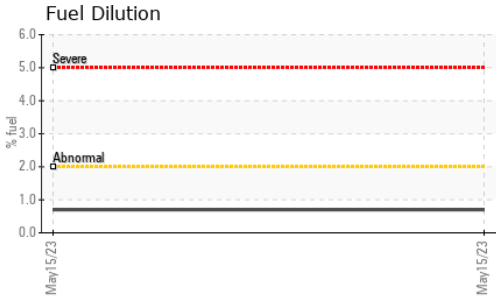
CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m) >25	3	---	---
Sodium	ppm	ASTM D5185(m)	1	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---
Fuel	%	ASTM D7593* >2.0	0.7	---	---

INFRA-RED

	method	limit/base	current	history 1	history 2
Soot %	%	ASTM D7844* >3	0.3	---	---
Nitration	Abs/cm	ASTM D7624* >20	6.0	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	18.7	---	---

OIL ANALYSIS REPORT

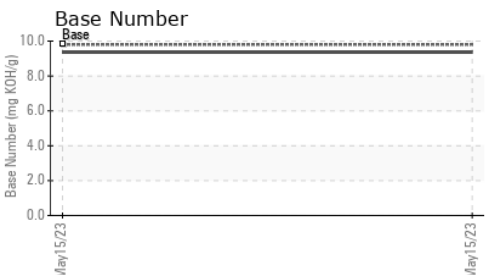
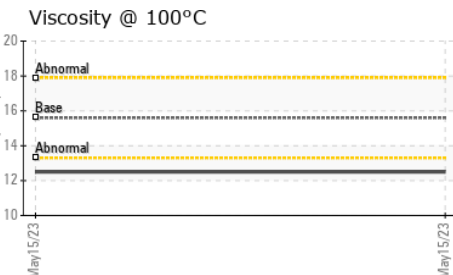
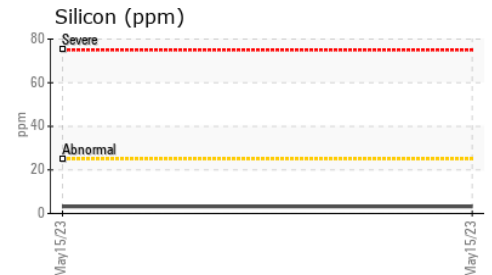
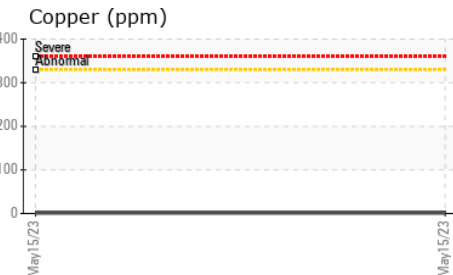
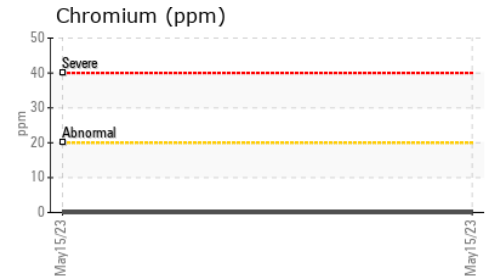
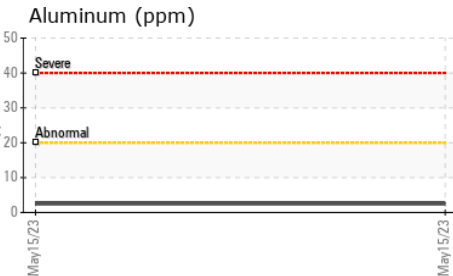
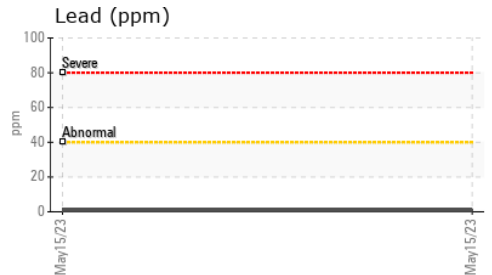
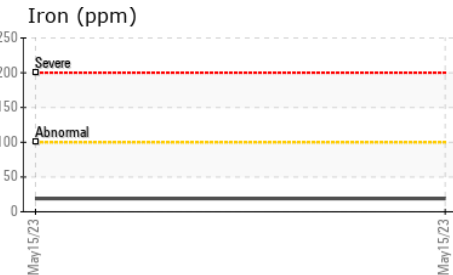


FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs./1mm	ASTM D7414*	>25	13.8	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	9.37	---	---

VISUAL		method	limit/base	current	history 1	history 2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	93.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	12.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	139	128	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **INDUSTRIAS del PETROLEO CANAD. SA**
Sample No. : PC0069042 **Received** : 06 Jun 2023 Contiguo FANAL, frente a la Autopista Bernardo Soto
Lab Number : **02562029** **Diagnosed** : 07 Jun 2023 Grecia, A
Unique Number : 5591070 **Diagnostician** : Wes Davis Costa Rica
Test Package : MOB 2 (Additional Tests: FuelDilution, KV40, PercentFuel, VI) Contact: Ronald Sanchez
rsanchez@lubricantescanada.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. T:
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: x:
 Validity of results and interpretation are based on the sample and information as supplied.