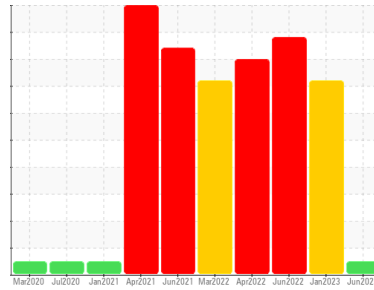


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
EBI DE COSTA RICA
Machine Id
VOLVO A30F A30F03
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (35 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Test for glycol is negative. 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	history1	history2
Sample Number	Client Info		PC0073830	PC0063686	PC0063057
Sample Date	Client Info		15 Jun 2023	03 Jan 2023	21 Jun 2022
Machine Age	hrs	Client Info	12734	12223	11971
Oil Age	hrs	Client Info	250	250	250
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	SEVERE	SEVERE

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	7	4	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	0	0
Titanium	ppm	ASTM D5185(m)		<1	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	2	2	1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>20	<1	6	5
Tin	ppm	ASTM D5185(m)	>20	<1	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	<1
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

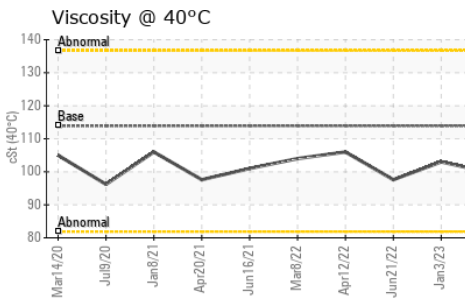
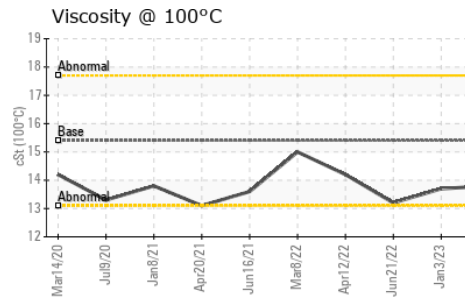
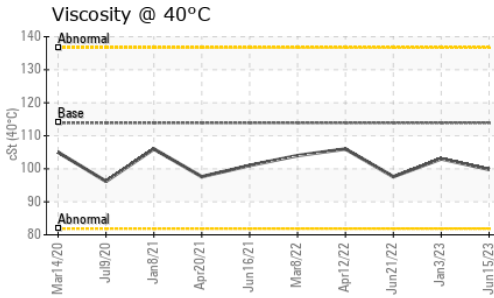
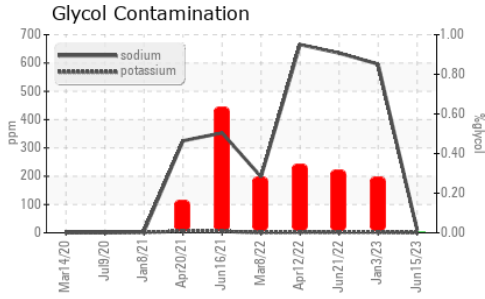
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	9	25	23
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	79	82
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	972	806	737
Calcium	ppm	ASTM D5185(m)	1070	1057	948	923
Phosphorus	ppm	ASTM D5185(m)	1150	1072	1022	920
Zinc	ppm	ASTM D5185(m)	1270	1188	1074	1067
Sulfur	ppm	ASTM D5185(m)	2060	2682	2465	2475
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	7	6	5
Sodium	ppm	ASTM D5185(m)		10	▲ 596	▲ 635
Potassium	ppm	ASTM D5185(m)	>20	<1	2	2
Glycol	%	ASTM D7922*		0.0	🔴 0.277	🔴 0.317

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.9	8.1	7.8
Sulfation	Abs./1mm	ASTM D7415*	>30	18.2	19.3	16.6

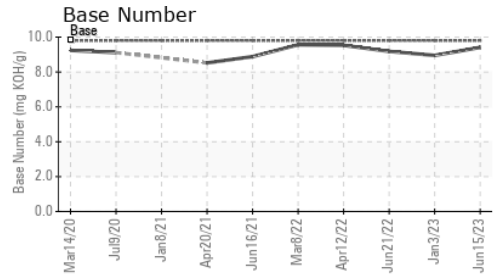
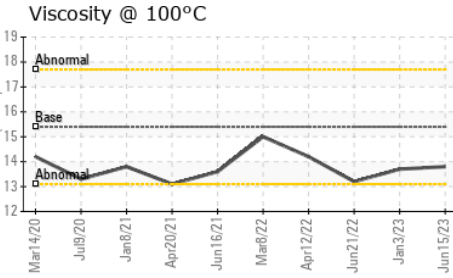
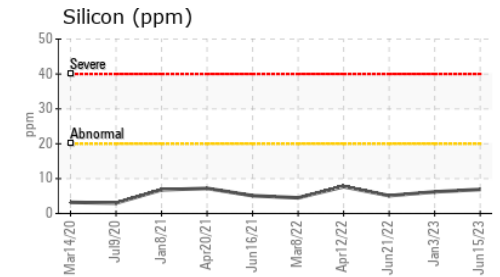
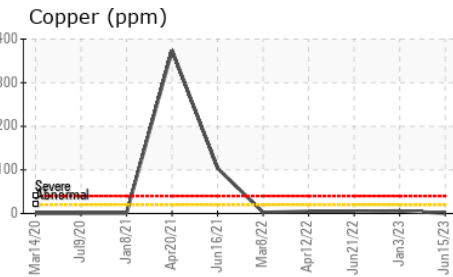
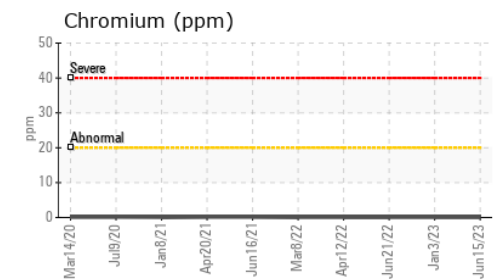
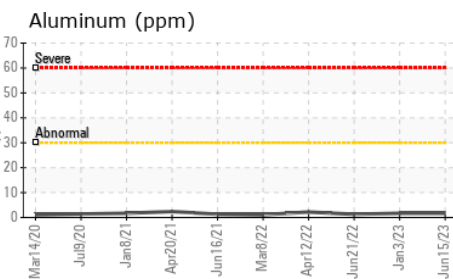
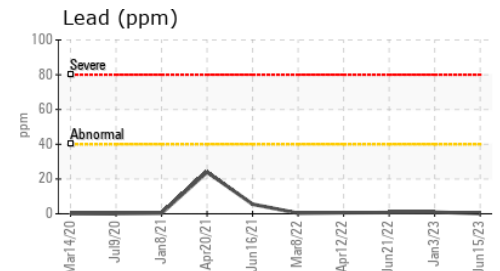
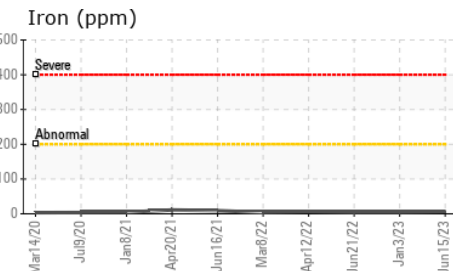


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	13.5	13.4	12.5
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	9.41	8.95	9.18

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	▲ .2%	▲ .2%
Free Water	scalar	Visual*		NEG	NEG	▲ 1%

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	99.8	103	97.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.8	13.7	13.2
Viscosity Index (VI)	Scale	ASTM D2270*	142	139	133	133

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **INDUSTRIAS del PETROLEO CANAD. SA**
Sample No. : PC0073830 **Received** : 13 Jul 2023
Lab Number : 02569548 **Diagnosed** : 17 Jul 2023
Unique Number : 5606594 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, VI)

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.

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