



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2361
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RW0005351	RW0004339	RW0003720
Sample Date		Client Info		24 Jun 2024	22 Jul 2023	15 Jun 2022
Machine Age	hrs	Client Info		13347	12520	10877
Oil Age	hrs	Client Info		130	900	970
Filter Age	hrs	Client Info		130	900	970
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 D5185m	>100	5	35	16
Chromium	ppm	ASTM D5185m	>20	0	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	8	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

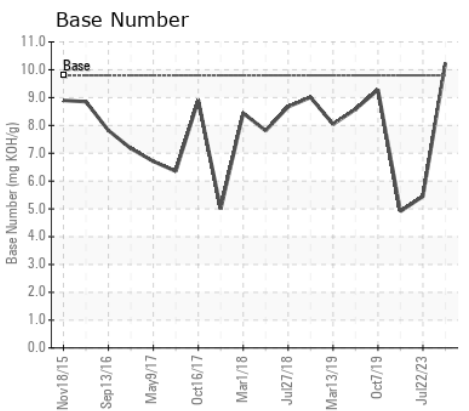
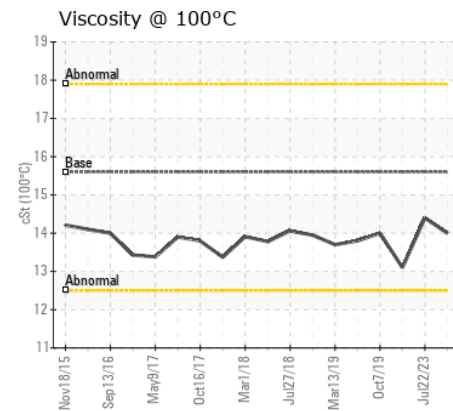
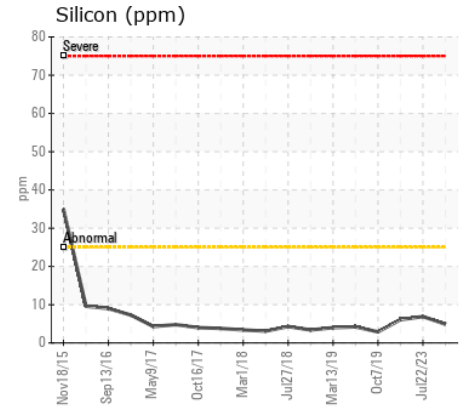
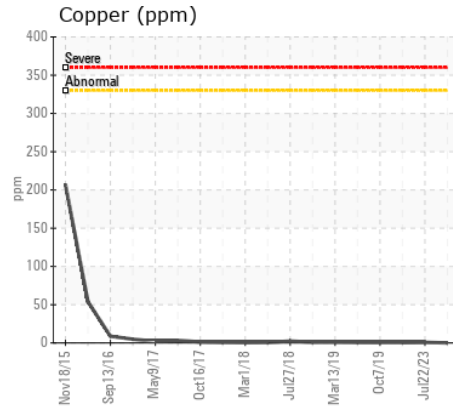
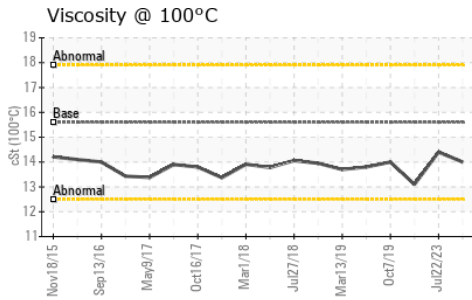
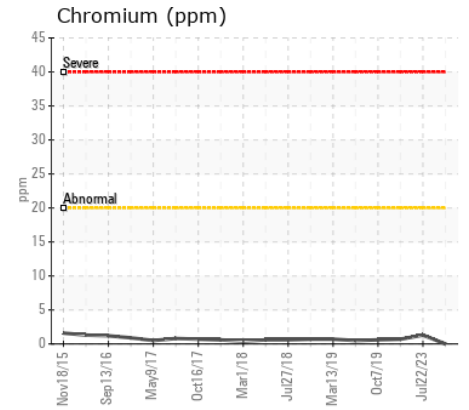
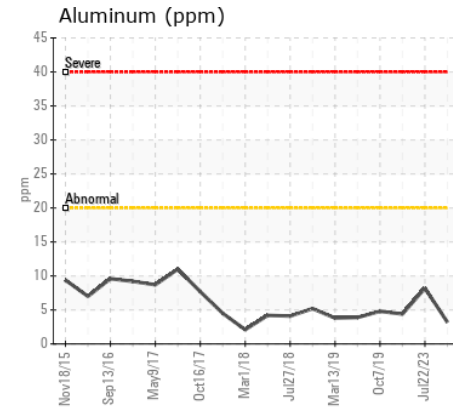
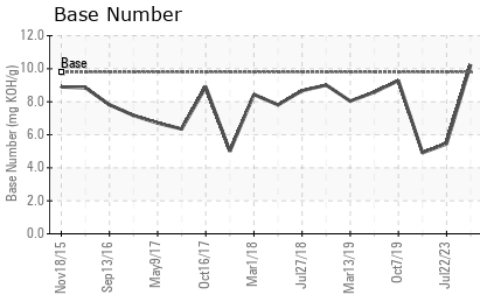
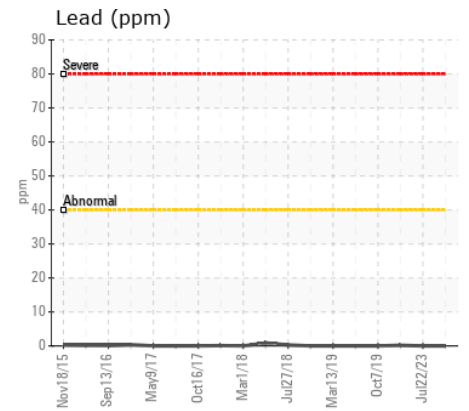
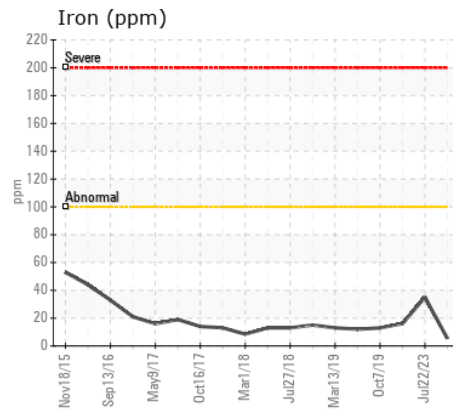
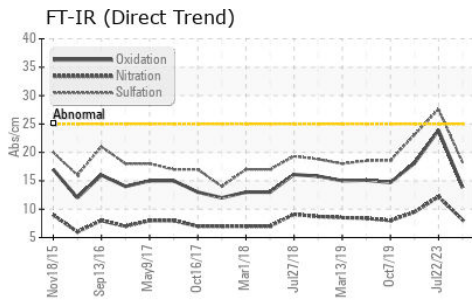
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	7	6
Potassium	ppm	ASTM D5185m	>20	11	26	3
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	0.1	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.1	12.2	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	27.6	23.1
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m		8	12	1
Boron	ppm	ASTM D5185m		132	62	5
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		90	6	82
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		127	181	358
Calcium	ppm	ASTM D5185m		2363	2073	1342
Phosphorus	ppm	ASTM D5185m		1173	973	997
Zinc	ppm	ASTM D5185m		1367	1246	1239
Sulfur	ppm	ASTM D5185m		4682	3635	3478
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	23.9	18.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.24	5.45	4.91
Visc @ 100°C	cSt	ASTM D445	15.6	14.0	14.4	13.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : RW0005351

Lab Number : 06231594

Unique Number : 11115087

Test Package : MOB 2

Received : 09 Jul 2024

Tested : 10 Jul 2024

Diagnosed : 11 Jul 2024 - Angela Borella

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)