



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
30
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0850981	WC0740549	WC0740560
Sample Date		Client Info		14 Apr 2024	21 Apr 2023	21 Jul 2022
Machine Age	mls	Client Info		0	114358	108708
Oil Age	mls	Client Info		0	0	10000
Filter Age	mls	Client Info		0	0	10000
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	53	41	62
Chromium	ppm	ASTM D5185m	>20	<1	3	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	16	9	23
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	11
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

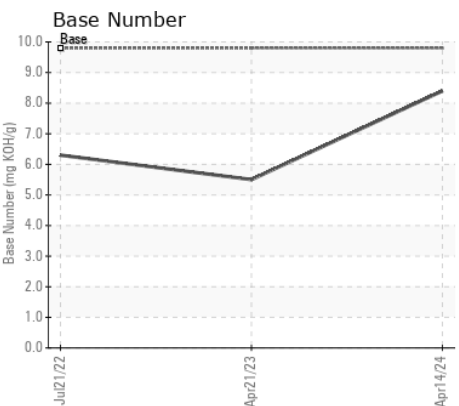
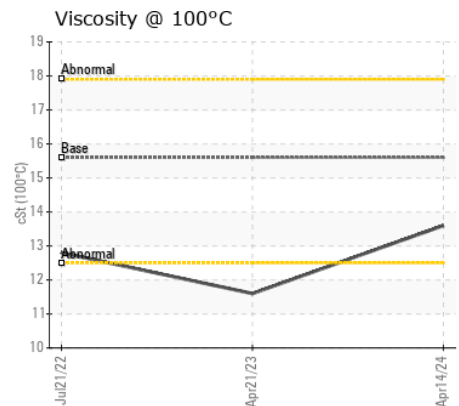
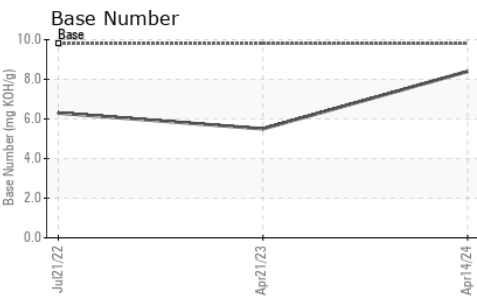
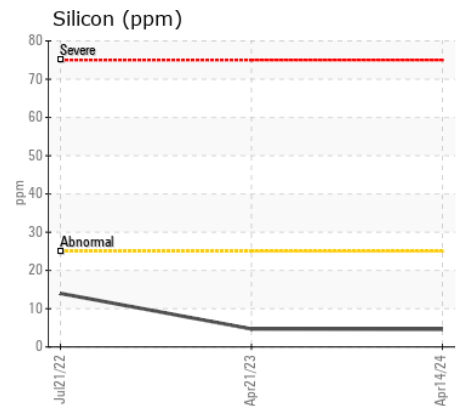
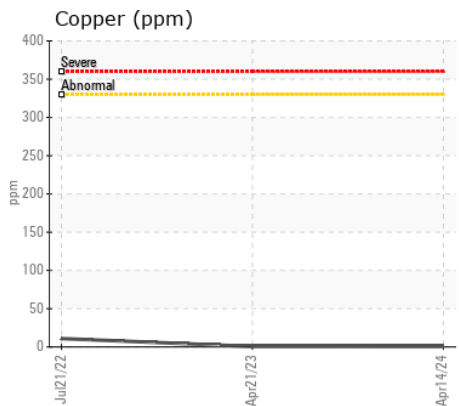
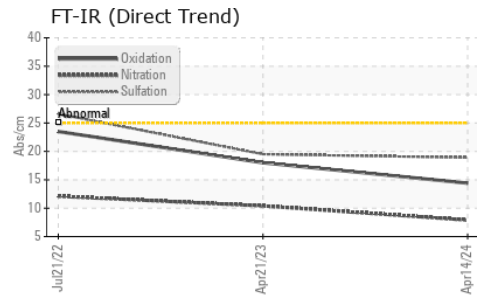
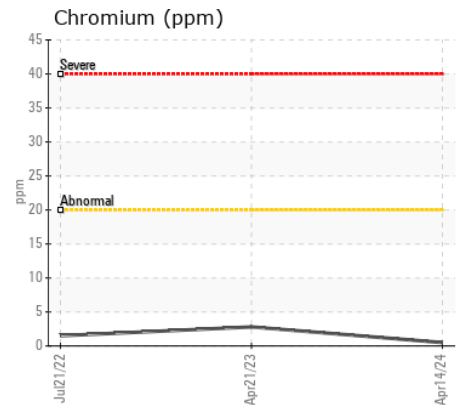
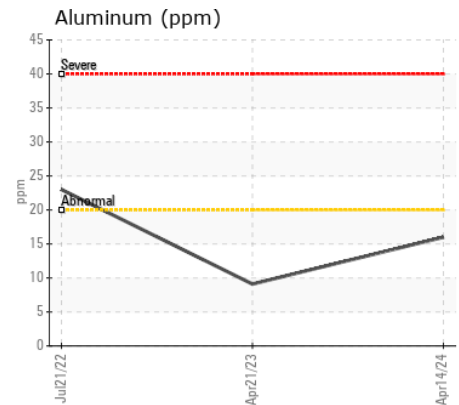
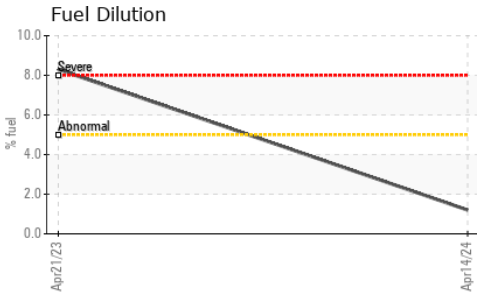
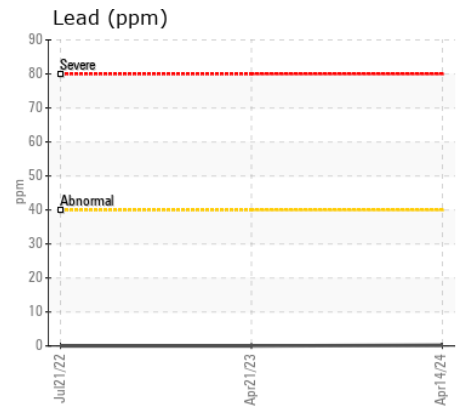
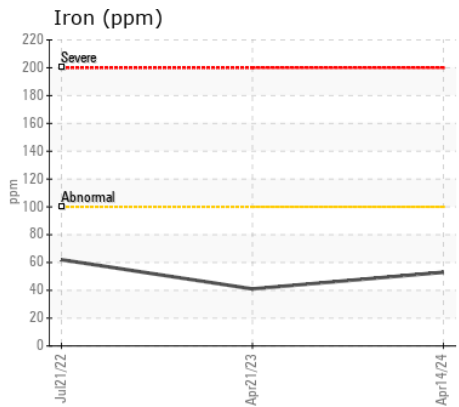
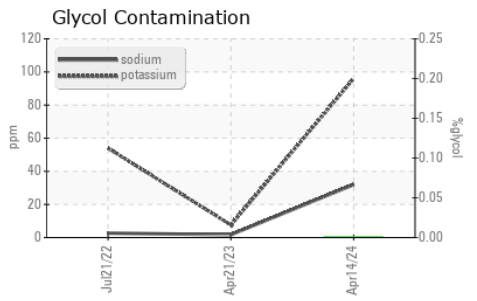
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	5	14
Potassium	ppm	ASTM D5185m	>20	96	8	54
Fuel	%	ASTM D3524	>5	1.2	▲ 8.3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		0.0	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.7	0.8
Nitration	Abs/cm	*ASTM D7624	>20	7.9	10.4	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	19.5	26.6
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		32	2	3
Boron	ppm	ASTM D5185m		35	8	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		88	56	54
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		607	872	809
Calcium	ppm	ASTM D5185m		1706	1084	1187
Phosphorus	ppm	ASTM D5185m		1187	924	871
Zinc	ppm	ASTM D5185m		1360	1193	1163
Sulfur	ppm	ASTM D5185m		4262	3082	3328
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	18.0	23.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	5.5	6.3
Visc @ 100°C	cSt	ASTM D445	15.6	13.6	▲ 11.6	12.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0850981 **Received** : 15 Apr 2024
Lab Number : 06149338 **Tested** : 19 Apr 2024
Unique Number : 10979416 **Diagnosed** : 19 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel, TBN)

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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)