



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
DR130
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W40 (36 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088291	PC0082675	PC0078039
Sample Date		Client Info		03 May 2024	11 Jan 2024	04 Aug 2023
Machine Age	hrs	Client Info		17644	17371	17128
Oil Age	hrs	Client Info		0	250	200
Filter Age	hrs	Client Info		0	250	200
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	10	7	6
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	2	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

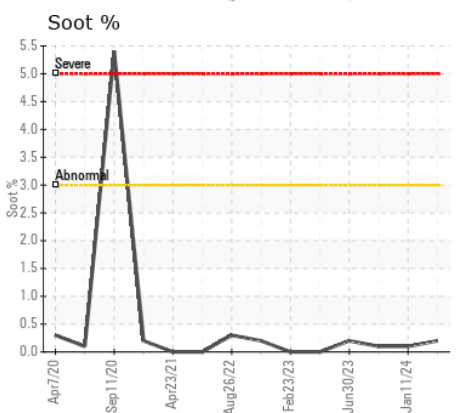
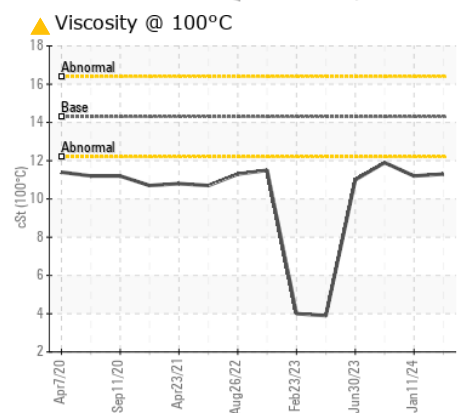
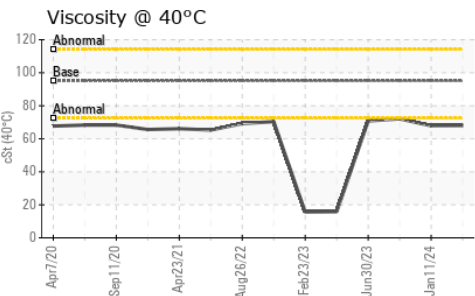
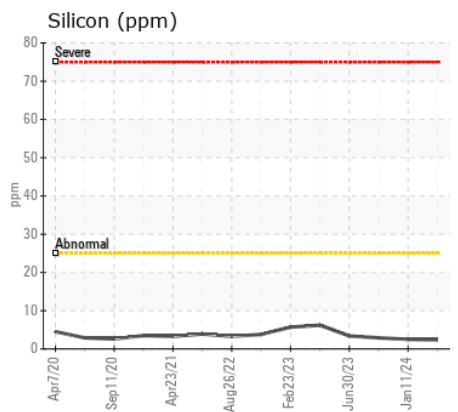
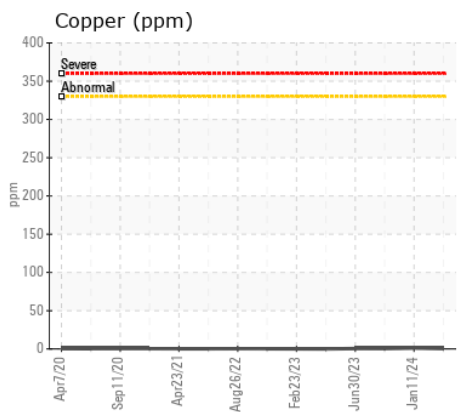
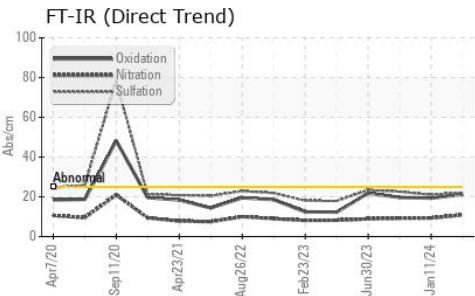
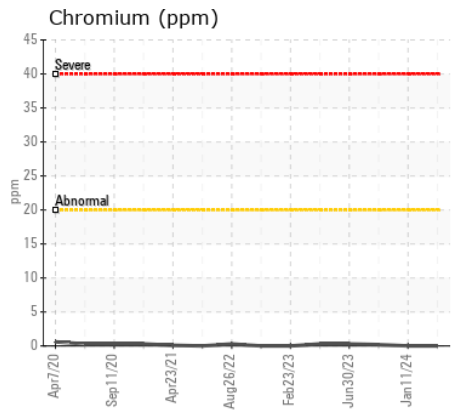
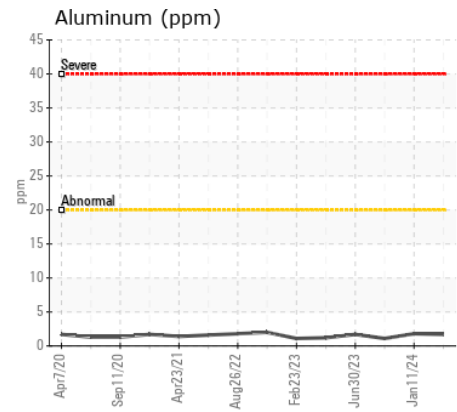
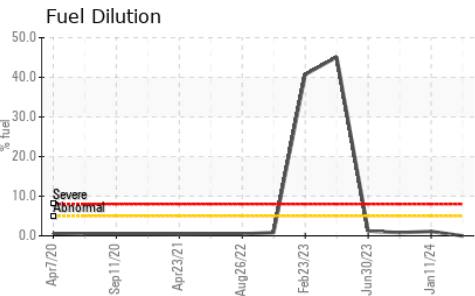
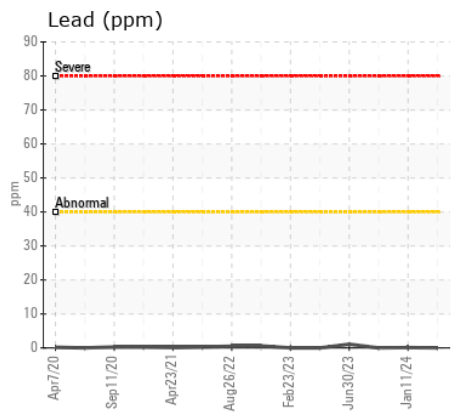
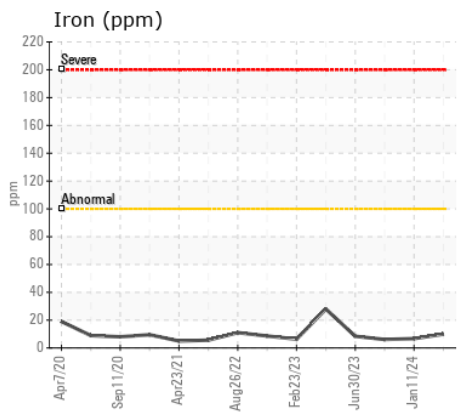
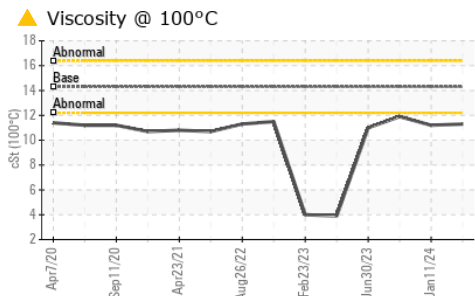
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	3
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel	%	ASTM D7593*	>5	0.0	1.1	0.8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	10.9	9.3	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	21.0	22.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 5W30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		4	4	4
Boron	ppm	ASTM D5185(m)	65	40	38	35
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	59	58	57
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	1149	1089	1053
Calcium	ppm	ASTM D5185(m)	820	875	934	997
Phosphorus	ppm	ASTM D5185(m)	1160	1082	1075	1080
Zinc	ppm	ASTM D5185(m)	1260	1237	1214	1205
Sulfur	ppm	ASTM D5185(m)	3000	2916	3089	2833
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.2	19.3	19.7
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	68.0	▲ 67.9	72.1
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	▲ 11.3	▲ 11.2	11.9
Viscosity Index (VI)	Scale	ASTM D2270*	169	159	157	161



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088291
Lab Number : 02636339
Unique Number : 5785501
Test Package : MOB 1 (Additional Tests: FUELDILUTION, KV40, PercentFuel, VI)

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 Stouffville, ON
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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.