



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DR131
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (38 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078477	PC0062000	PC0060145
Sample Date		Client Info		15 Mar 2024	19 Mar 2023	06 Apr 2022
Machine Age	hrs	Client Info		17634	16648	16286
Oil Age	hrs	Client Info		0	500	250
Filter Age	hrs	Client Info		0	0	250
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	6	16	5
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	3	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	2	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

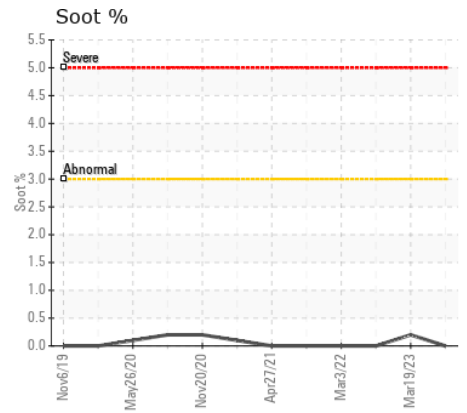
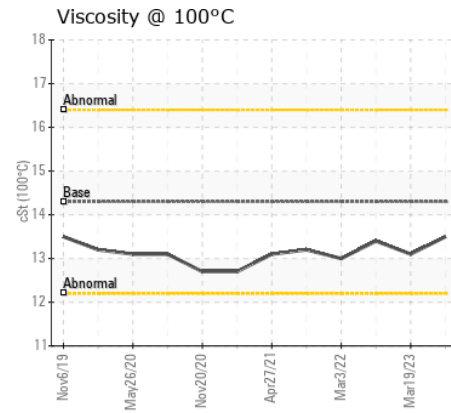
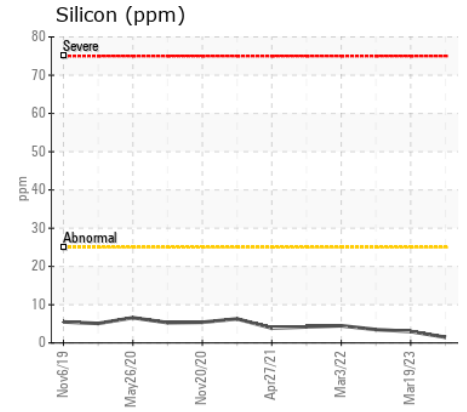
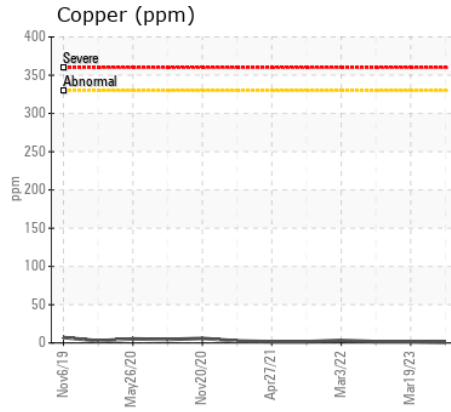
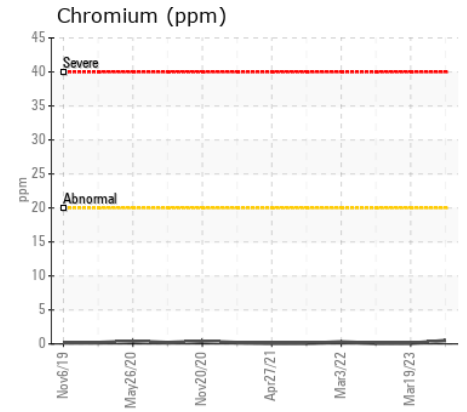
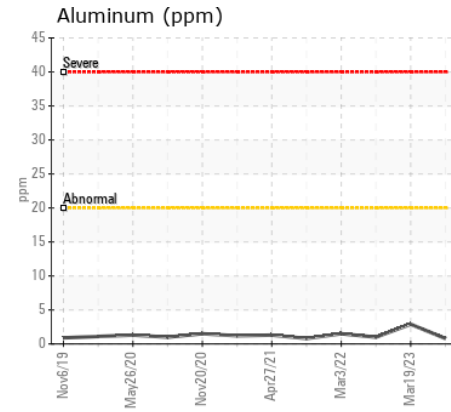
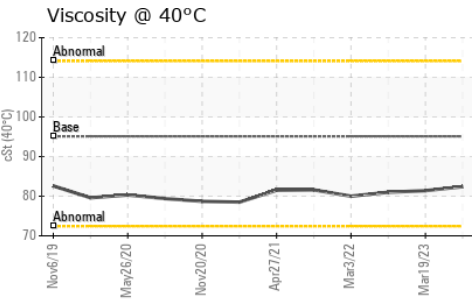
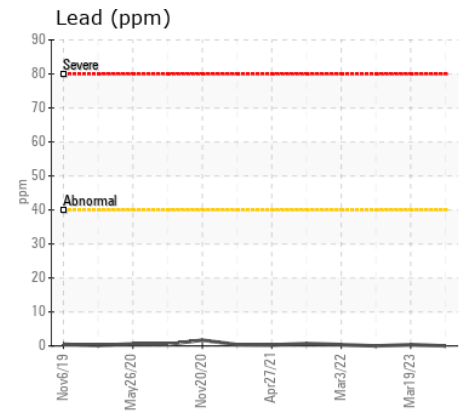
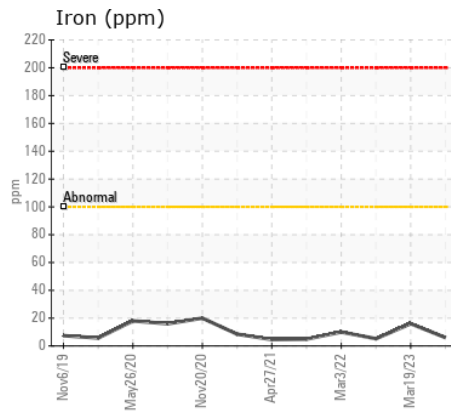
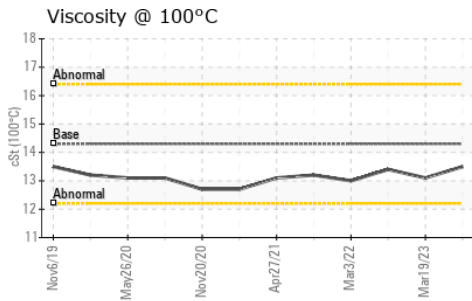
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
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	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	11.2	10.4	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	22.8	21.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		3	5	3
Boron	ppm	ASTM D5185(m)	65	42	38	47
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	56	58	53
Manganese	ppm	ASTM D5185(m)	0	0	<1	0
Magnesium	ppm	ASTM D5185(m)	1160	1062	1105	1082
Calcium	ppm	ASTM D5185(m)	820	810	849	805
Phosphorus	ppm	ASTM D5185(m)	1160	974	1114	1019
Zinc	ppm	ASTM D5185(m)	1260	1155	1188	1156
Sulfur	ppm	ASTM D5185(m)	3000	2670	2910	2694
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.2	19.7	17.3
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	82.4	81.4	81.0
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.5	13.1	13.4
Viscosity Index (VI)	Scale	ASTM D2270*	169	167	162	168



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078477
Lab Number : 02624911
Unique Number : 5750030
Test Package : MOB 1 (Additional Tests: KV40, VI)
Received : 27 Mar 2024
Tested : 27 Mar 2024
Diagnosed : 27 Mar 2024 - Wes Davis

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
 151 Ram Forest Rd,
 Stouffville, ON
 CA L4A 2G8
 Contact: Shannon Abbott
 sabbott@gipi.com
 T: (905)750-5900
 F:

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.