



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DR171
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC	PC0060142	PC0037422
Sample Date		Client Info		29 Feb 2024	13 Apr 2022	16 Sep 2020
Machine Age	hrs	Client Info		3728	3357	3201
Oil Age	hrs	Client Info		0	250	3065
Filter Age	hrs	Client Info		0	250	3065
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	7	11	6
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
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	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

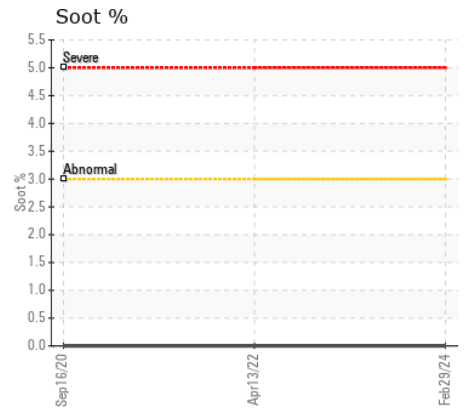
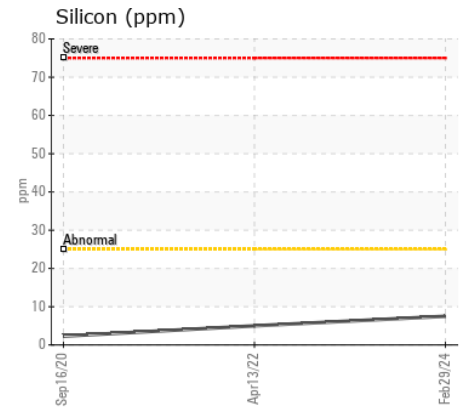
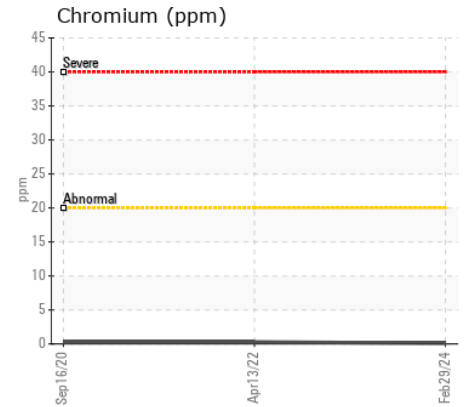
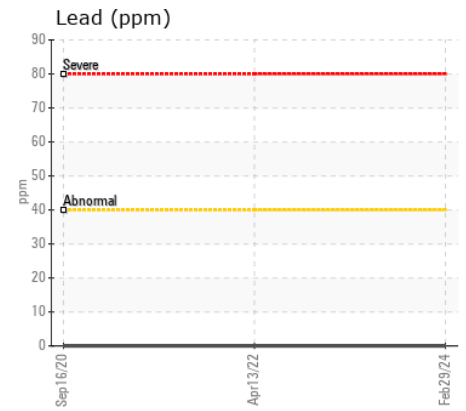
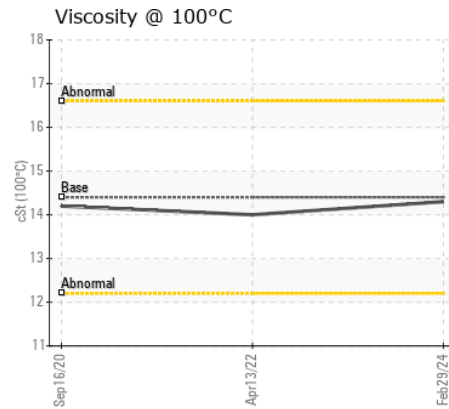
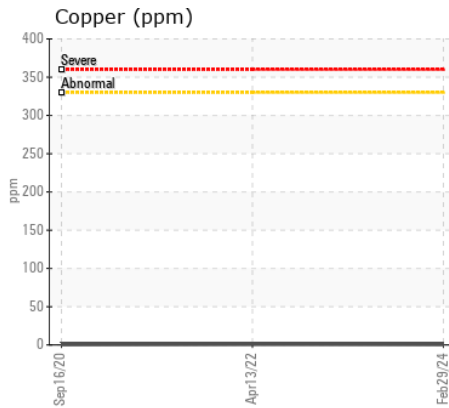
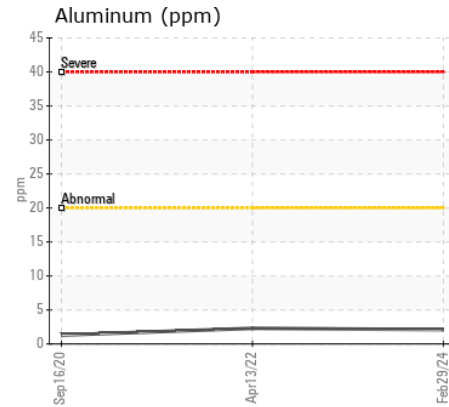
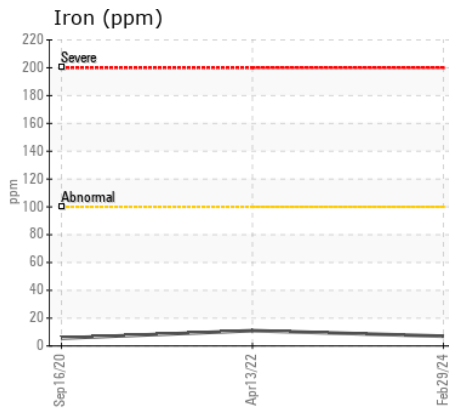
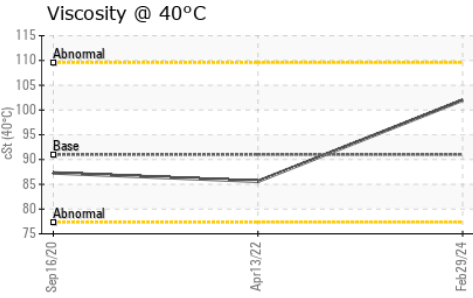
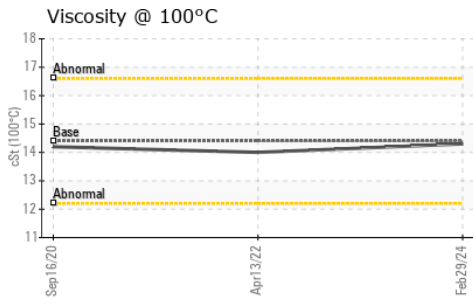
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	5	2
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<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	0
Nitration	Abs/cm	ASTM D7624*	>20	7.4	9.0	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	21.3	19.4
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)	>44	1	4	4
Boron	ppm	ASTM D5185(m)	250	6	49	56
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	55	59	59
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	938	1144	1114
Calcium	ppm	ASTM D5185(m)	3000	981	839	811
Phosphorus	ppm	ASTM D5185(m)	1150	1007	1102	1058
Zinc	ppm	ASTM D5185(m)	1350	1131	1264	1229
Sulfur	ppm	ASTM D5185(m)	4250	2715	2938	2911
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.1	18.9	18.5
Visc @ 40°C	cSt	ASTM D7279(m)	91	102	85.6	87.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.3	14.0	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	164	143	168	168



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC **Received** : 01 Mar 2024
Lab Number : 02619156 **Tested** : 01 Mar 2024
Unique Number : 5736266 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.