

Area
[P-28603]
 Machine Id
1520
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083201	PC0083687	PC0082238
Sample Date		Client Info		23 Apr 2024	04 Feb 2024	17 Oct 2023
Machine Age	hrs	Client Info		4091	3577	3081
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	18	17	12
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	4	4
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	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

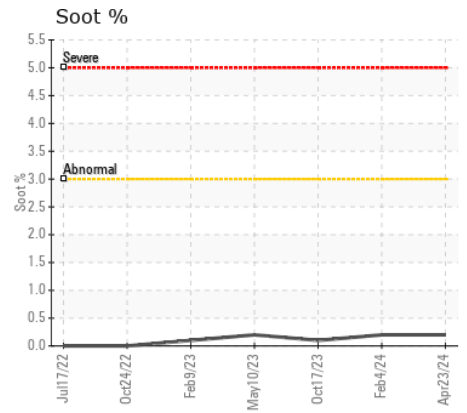
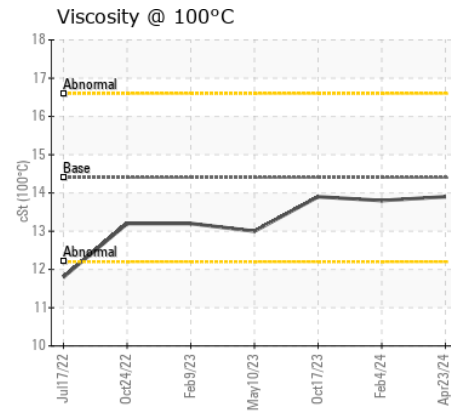
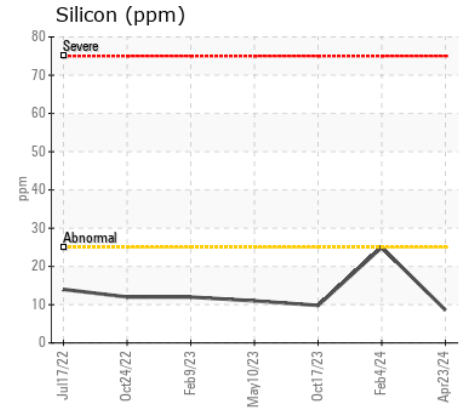
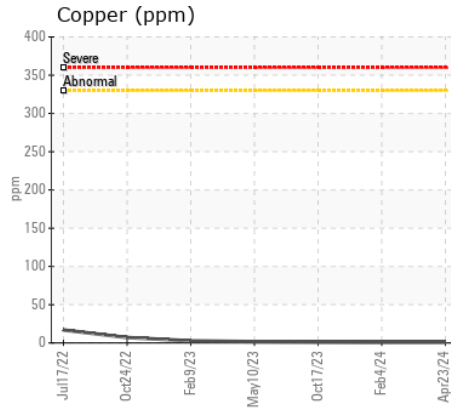
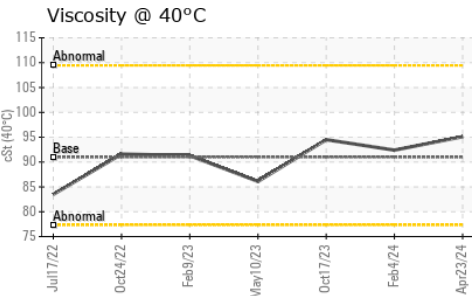
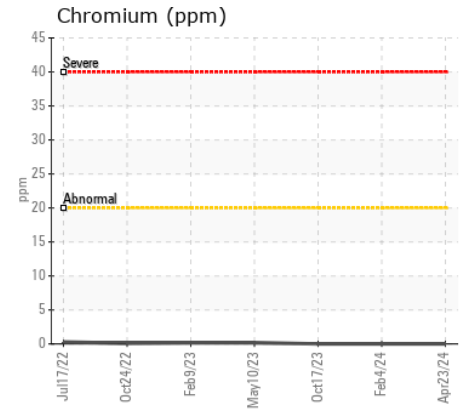
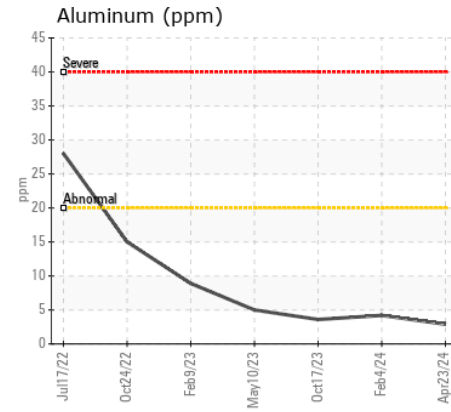
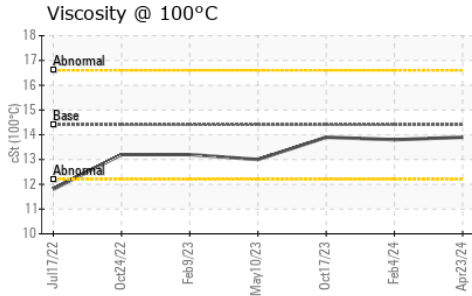
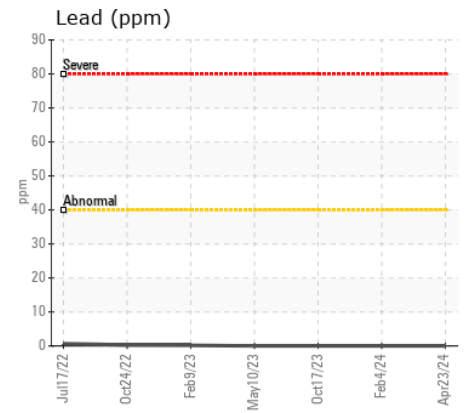
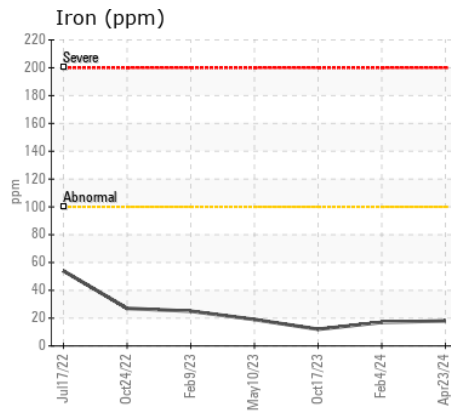
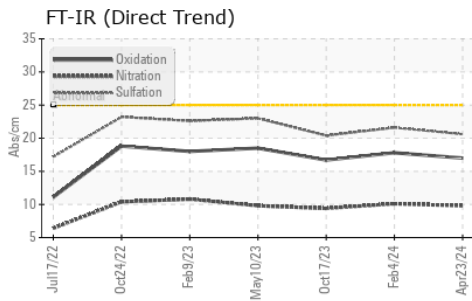
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	25	10
Potassium	ppm	ASTM D5185(m)	>20	3	6	6
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	0.2	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.8	10.1	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	21.6	20.4
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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	1	2
Boron	ppm	ASTM D5185(m)	250	1	<1	1
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	61	57	60
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)	450	1013	933	994
Calcium	ppm	ASTM D5185(m)	3000	1152	1210	1159
Phosphorus	ppm	ASTM D5185(m)	1150	1043	1015	1035
Zinc	ppm	ASTM D5185(m)	1350	1257	1212	1256
Sulfur	ppm	ASTM D5185(m)	4250	2486	2642	2507
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.0	17.8	16.7
Visc @ 40°C	cSt	ASTM D7279(m)	91	95.1	92.4	94.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.9	13.8	13.9
Viscosity Index (VI)	Scale	ASTM D2270*	164	148	152	149



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083201
Lab Number : 02631102
Unique Number : 5772255
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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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.*

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