



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
F15107
 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		PC0082957	PC0071000	PC0060617
Sample Date		Client Info		11 Jun 2024	08 Aug 2023	10 Jul 2022
Machine Age	hrs	Client Info		5441	4921	3795
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	31	19	28
Chromium	ppm	ASTM D5185(m)	>20	<1	1	2
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	4	7
Lead	ppm	ASTM D5185(m)	>40	<1	1	2
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

CONTAMINATION

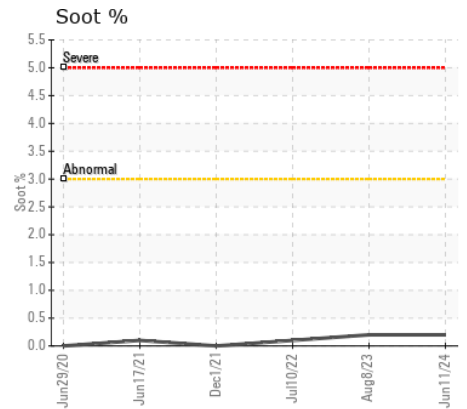
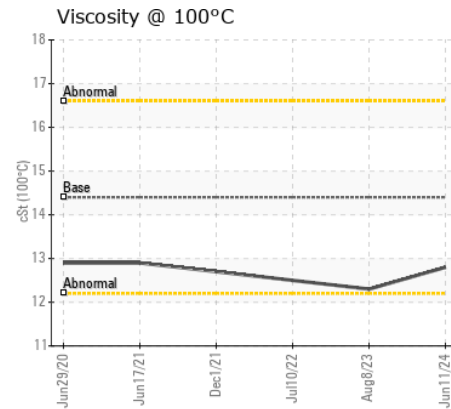
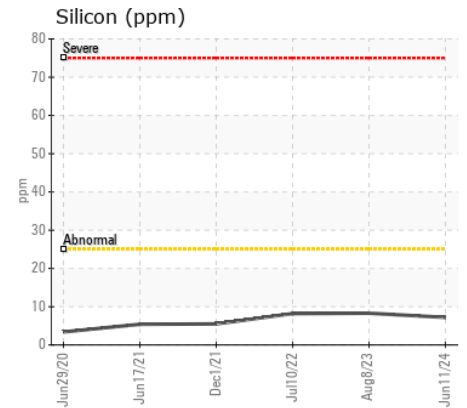
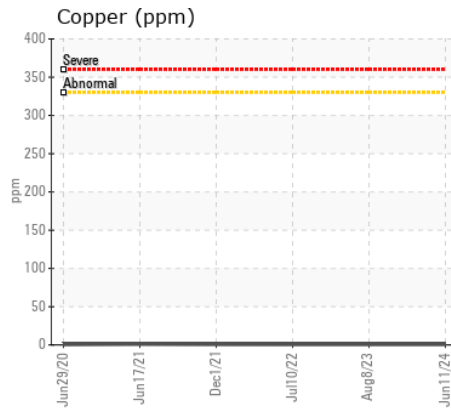
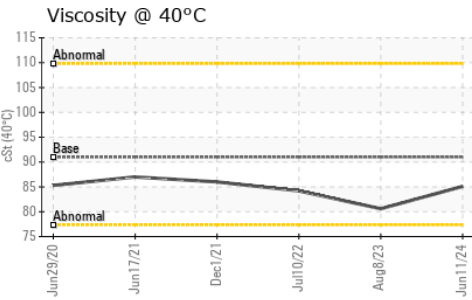
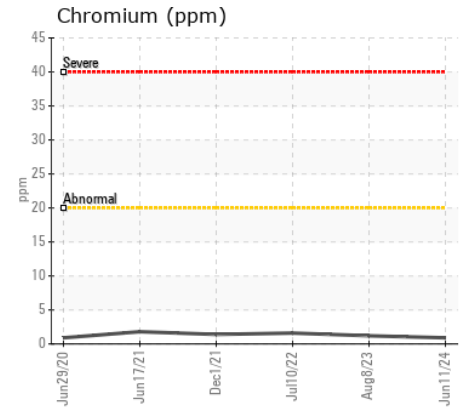
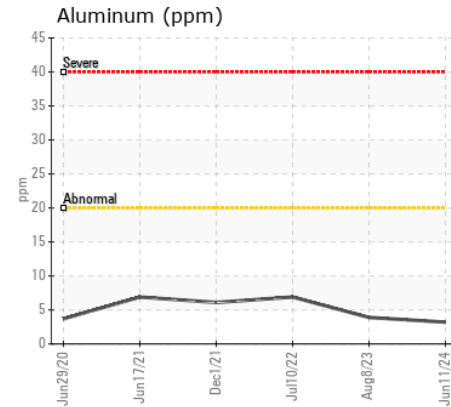
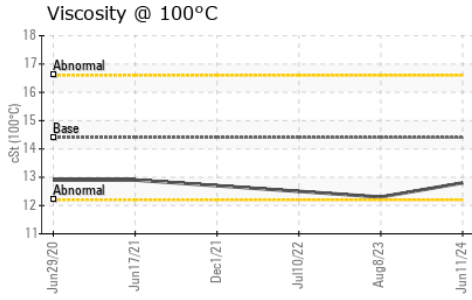
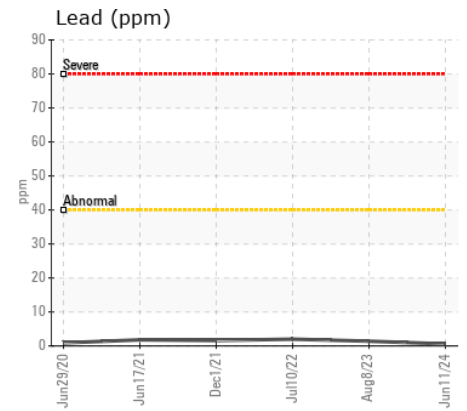
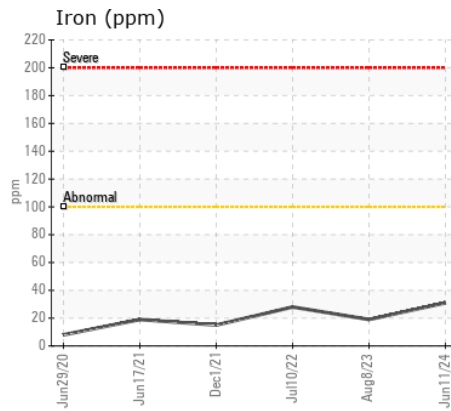
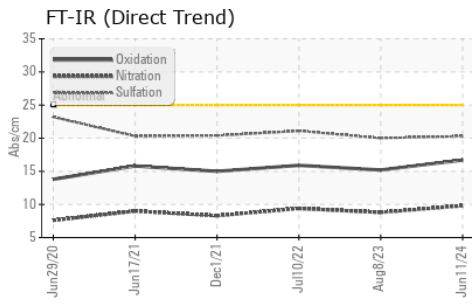
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	8	8
Potassium	ppm	ASTM D5185(m)	>20	4	6	12
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	8.8	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.3	20.0	21.1
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	4	5	5
Boron	ppm	ASTM D5185(m)	250	2	7	4
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	58	59	56
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	942	924	941
Calcium	ppm	ASTM D5185(m)	3000	1088	1099	1213
Phosphorus	ppm	ASTM D5185(m)	1150	985	1024	1020
Zinc	ppm	ASTM D5185(m)	1350	1174	1165	1235
Sulfur	ppm	ASTM D5185(m)	4250	2458	2475	2601
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.7	15.2	15.9
Visc @ 40°C	cSt	ASTM D7279(m)	91	85.1	80.6	84.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.8	12.3	12.5
Viscosity Index (VI)	Scale	ASTM D2270*	164	149	149	145



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082957
Lab Number : 02641366
Unique Number : 5798905
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.

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