



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
7313
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (--- LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0924182	WC0853279	WC0796179
Sample Date		Client Info		04 Jun 2024	03 Feb 2024	09 Jul 2023
Machine Age	kms	Client Info		263252	250508	255125
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				MARGINAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	16	20	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	10	2
Lead	ppm	ASTM D5185(m)	>40	1	0	2
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
White Metal	scalar	Visual*	NONE	NONE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

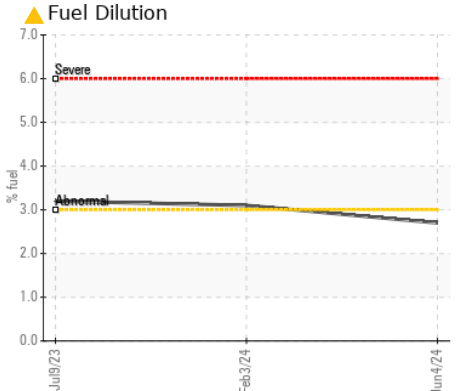
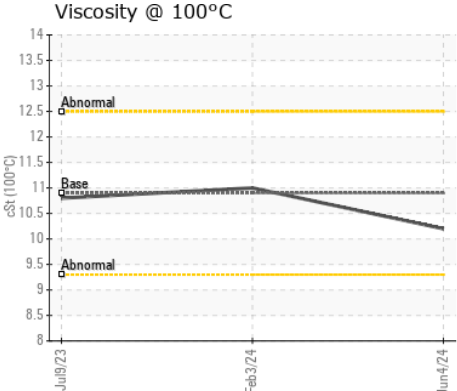
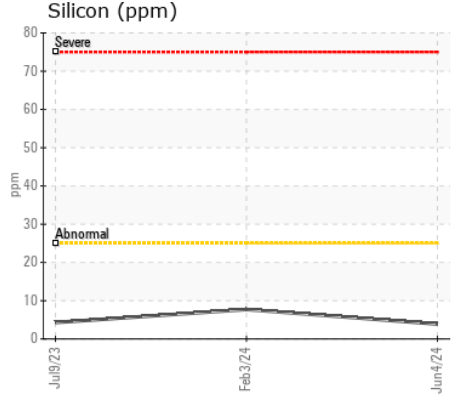
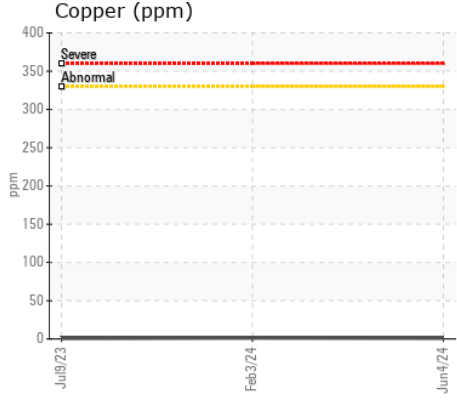
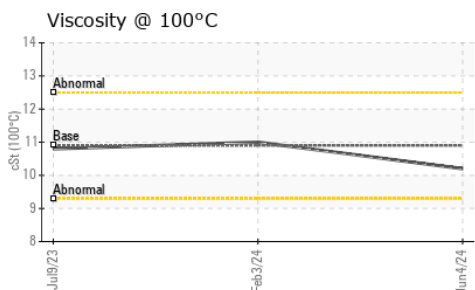
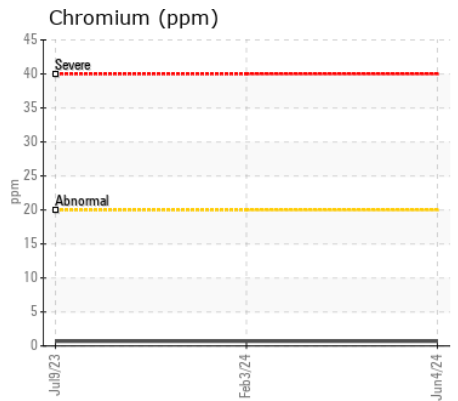
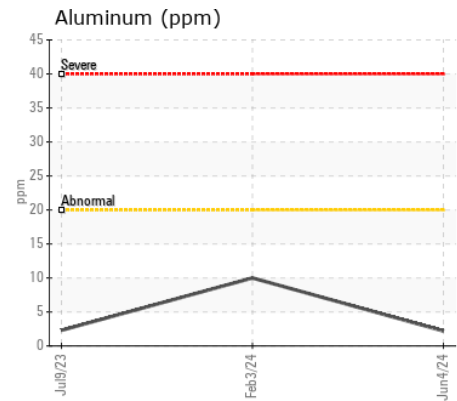
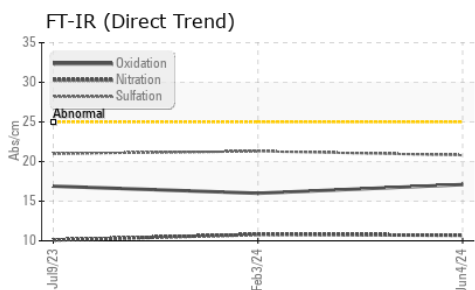
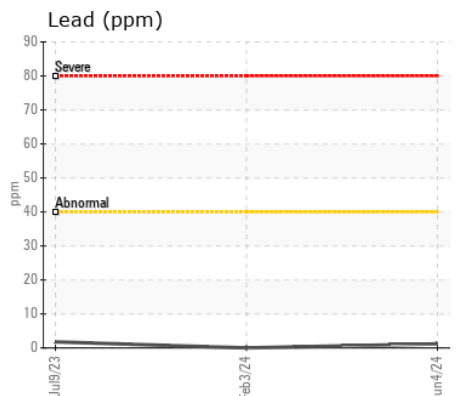
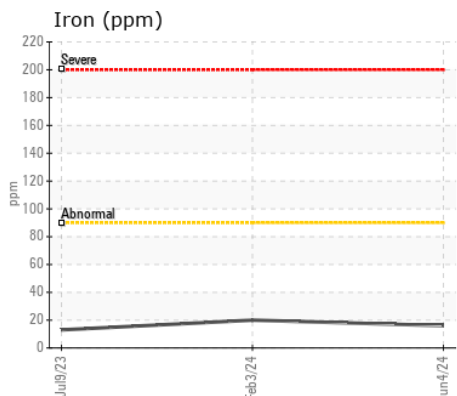
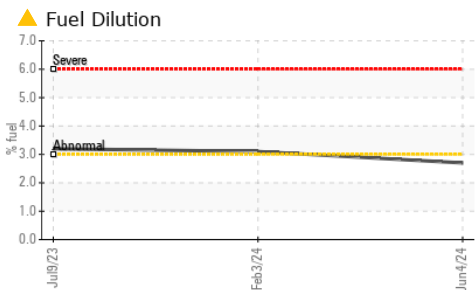
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	8	4
Potassium	ppm	ASTM D5185(m)	>20	4	16	5
Fuel	%	ASTM D7593*	>3.0	▲ 2.7	▲ 3.1	▲ 3.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.1	0.5	0.1
Nitration	Abs/cm	ASTM D7624*	>20	10.7	10.8	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	21.3	21.0
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	NONE	---	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	---	NONE
Appearance	scalar	Visual*	NORML	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)		2	2	4
Boron	ppm	ASTM D5185(m)	250	43	52	48
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	3	2	8
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	693	699	675
Calcium	ppm	ASTM D5185(m)	3000	1265	1297	1377
Phosphorus	ppm	ASTM D5185(m)	1150	666	660	748
Zinc	ppm	ASTM D5185(m)	1350	747	740	809
Sulfur	ppm	ASTM D5185(m)	4250	2418	2635	2508
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.1	16.0	16.9
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	10.2	11.0	▲ 10.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0924182 **Received** : 25 Jun 2024
Lab Number : 02643912 **Tested** : 26 Jun 2024
Unique Number : 5801451 **Diagnosed** : 26 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel, 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.