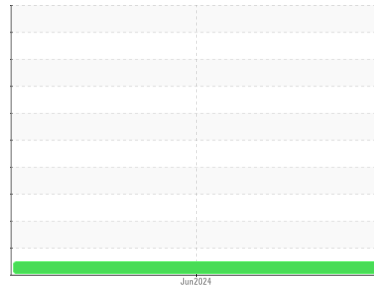


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
THOMAS 4415
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0089689	---	---
Sample Date	Client Info	05 Jun 2024	---	---
Machine Age	kms Client Info	232326	---	---
Oil Age	kms Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	---	---
Water	WC Method >0.2	NEG	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >90	20	---	---
Chromium	ppm ASTM D5185(m) >20	<1	---	---
Nickel	ppm ASTM D5185(m) >2	<1	---	---
Titanium	ppm ASTM D5185(m) >2	0	---	---
Silver	ppm ASTM D5185(m) >2	0	---	---
Aluminum	ppm ASTM D5185(m) >20	4	---	---
Lead	ppm ASTM D5185(m) >40	0	---	---
Copper	ppm ASTM D5185(m) >330	<1	---	---
Tin	ppm ASTM D5185(m) >15	0	---	---
Antimony	ppm ASTM D5185(m)	0	---	---
Vanadium	ppm ASTM D5185(m)	0	---	---
Beryllium	ppm ASTM D5185(m)	0	---	---
Cadmium	ppm ASTM D5185(m)	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 250	4	---	---
Barium	ppm ASTM D5185(m) 10	0	---	---
Molybdenum	ppm ASTM D5185(m) 100	59	---	---
Manganese	ppm ASTM D5185(m)	<1	---	---
Magnesium	ppm ASTM D5185(m) 450	953	---	---
Calcium	ppm ASTM D5185(m) 3000	1023	---	---
Phosphorus	ppm ASTM D5185(m) 1150	1000	---	---
Zinc	ppm ASTM D5185(m) 1350	1161	---	---
Sulfur	ppm ASTM D5185(m) 4250	2536	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

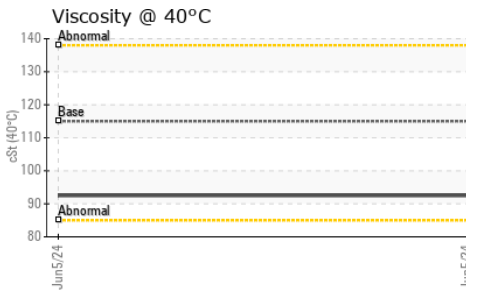
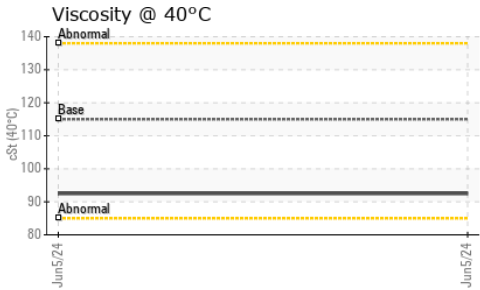
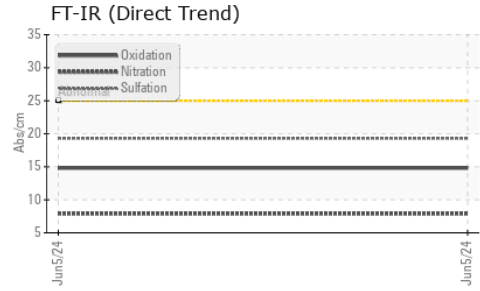
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	2	---	---
Sodium	ppm ASTM D5185(m) >158	2	---	---
Potassium	ppm ASTM D5185(m) >20	<1	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >6	0.5	---	---
Nitration	Abs/cm ASTM D7624* >20	7.9	---	---
Sulfation	Abs./1mm ASTM D7415* >30	19.3	---	---

OIL ANALYSIS REPORT

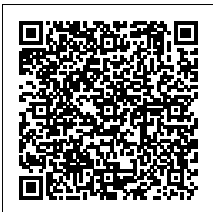
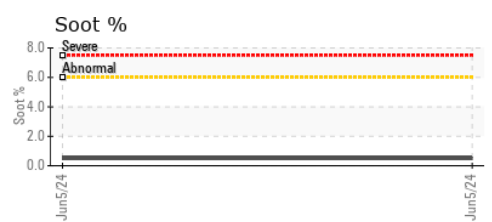
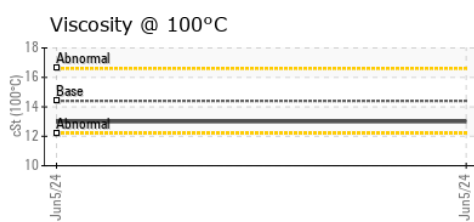
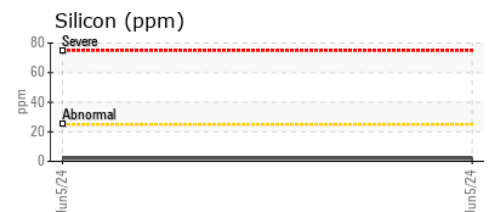
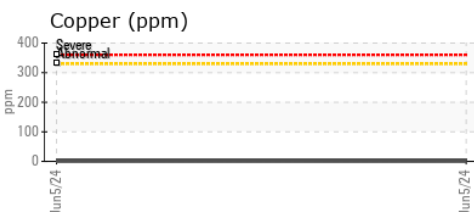
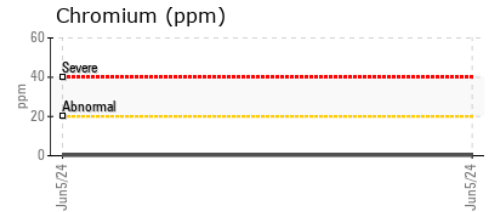
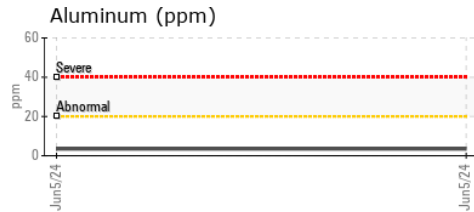
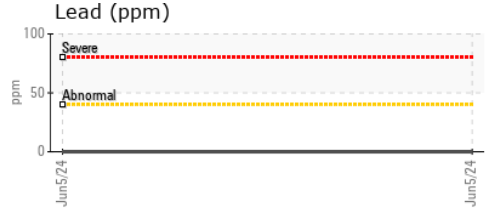
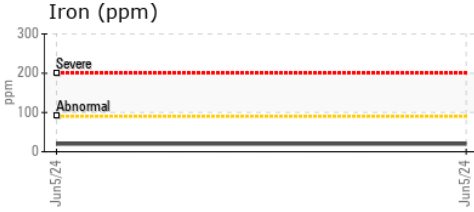


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	14.8	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
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	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	115	92.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	138	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0089689 **Received** : 09 Jul 2024
Lab Number : **02646610** **Tested** : 09 Jul 2024
Unique Number : 5812162 **Diagnosed** : 09 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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 T: (519)751-3434
 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.