



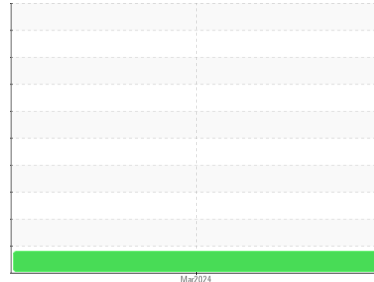
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
NO UNIT WC0909058
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)



DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 10W30. Please confirm. Please specify the component make and model with your next sample.

Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

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

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0909058	---	---
Sample Date	Client Info	18 Mar 2024	---	---
Machine Age	hrs	0	---	---
Oil Age	hrs	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	---	---
Iron	ppm	ASTM D5185(m) >100	▲ 127	---
Chromium	ppm	ASTM D5185(m) >20	2	---
Nickel	ppm	ASTM D5185(m) >4	1	---
Titanium	ppm	ASTM D5185(m)	0	---
Silver	ppm	ASTM D5185(m) >3	<1	---
Aluminum	ppm	ASTM D5185(m) >20	21	---
Lead	ppm	ASTM D5185(m) >40	3	---
Copper	ppm	ASTM D5185(m) >330	23	---
Tin	ppm	ASTM D5185(m) >15	1	---
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	1	---
Barium	ppm	ASTM D5185(m) 10	0	---
Molybdenum	ppm	ASTM D5185(m) 100	67	---
Manganese	ppm	ASTM D5185(m)	1	---
Magnesium	ppm	ASTM D5185(m) 450	1017	---
Calcium	ppm	ASTM D5185(m) 3000	1173	---
Phosphorus	ppm	ASTM D5185(m) 1150	1048	---
Zinc	ppm	ASTM D5185(m) 1350	1244	---
Sulfur	ppm	ASTM D5185(m) 4250	2131	---
Lithium	ppm	ASTM D5185(m)	<1	---

CONTAMINANTS

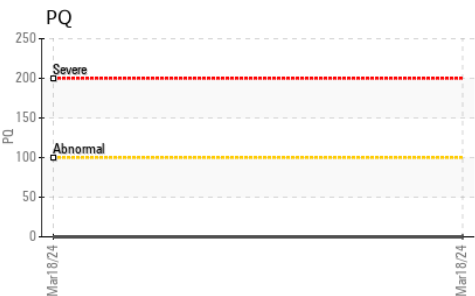
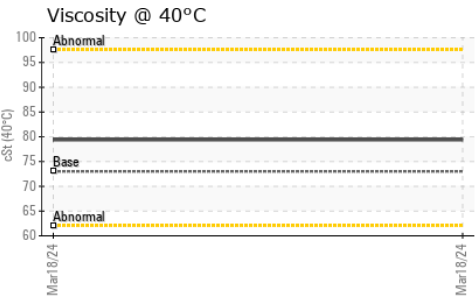
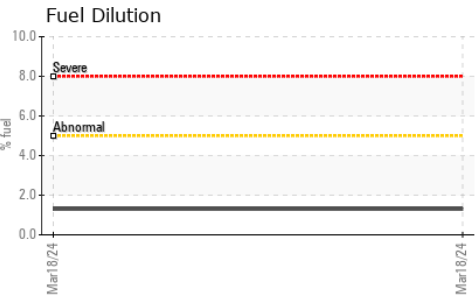
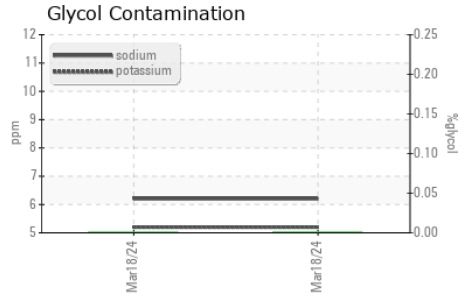
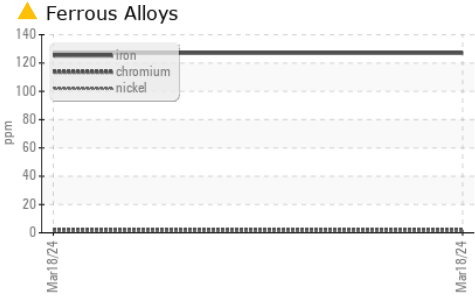
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	10	---
Sodium	ppm	ASTM D5185(m)	6	---
Potassium	ppm	ASTM D5185(m) >20	5	---
Fuel	%	ASTM D7593* >5	1.3	---
Glycol	%	ASTM D7922*	0.0	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	1.6	---
Nitration	Abs/cm	ASTM D7624* >20	15.7	---
Sulfation	Abs/.1mm	ASTM D7415* >30	29.1	---



OIL ANALYSIS REPORT

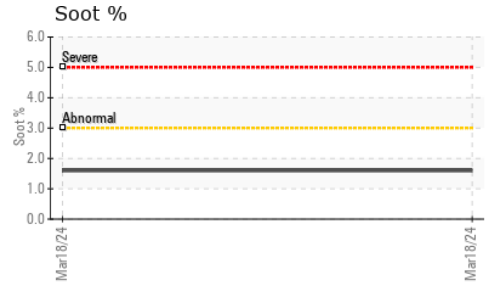
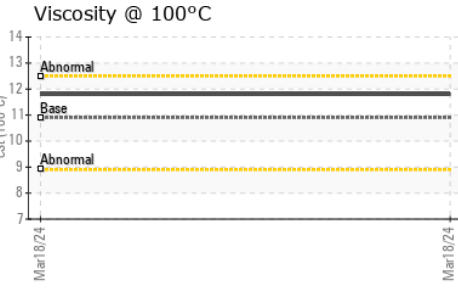
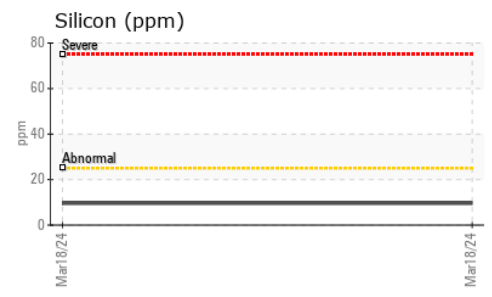
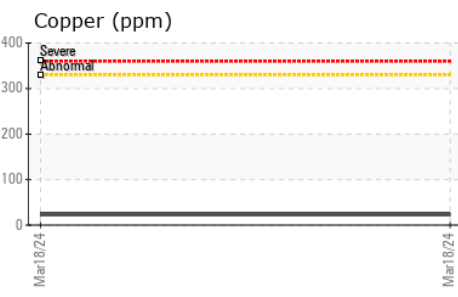
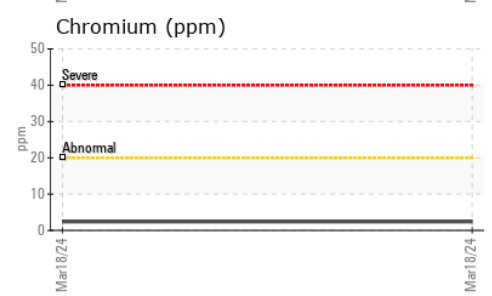
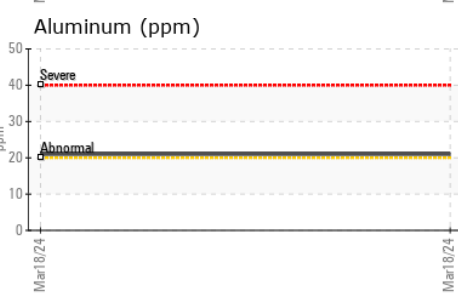
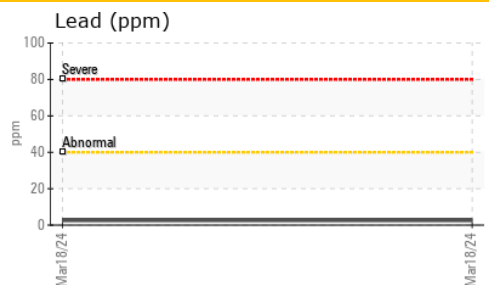
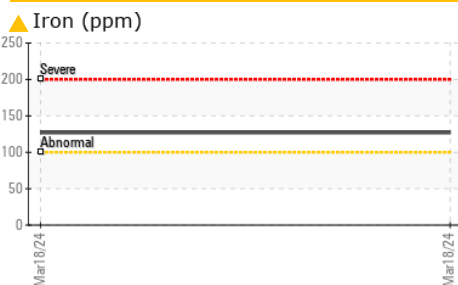


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	29.3	---	---

VISUAL	method	limit/base	current	history1	history2	
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)	73	79.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	138	142	---	---

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **PERFORMANCE EQUIPMENT - VISION TRUCK**
Sample No. : WC0909058 **Received** : 19 Mar 2024 **415 EVANS AVENUE**
Lab Number : 02622968 **Tested** : 20 Mar 2024 **ETOBICOKE, ON**
Unique Number : 5748087 **Diagnosed** : 20 Mar 2024 - Kevin Marson **CA M8W 0B3**
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, PQ, VI) **Contact: Service**
 etobservice@visiontruckgroup.com
 To discuss this sample report, contact Customer Service at 1-800-268-2131. **T:**
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **F:**
 Validity of results and interpretation are based on the sample and information as supplied.