



OIL ANALYSIS REPORT

Sample Rating Trend

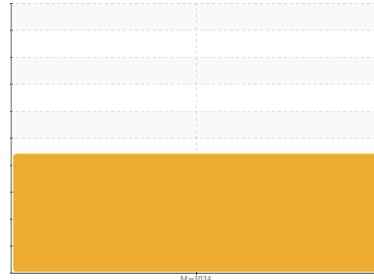
WATER



Machine Id
SIRIUS 4

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. There is a moderate concentration of water present in the oil. Free water present. There is a moderate concentration of dirt present in the oil. Test for glycol is negative.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PP0000677	---	---
Sample Date	Client Info	10 Mar 2024	---	---
Machine Age	hrs	Client Info	2200	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>80	8	---
Chromium	ppm	ASTM D5185(m)	>6	0	---
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	3	---
Lead	ppm	ASTM D5185(m)	>95	<1	---
Copper	ppm	ASTM D5185(m)	>85	2	---
Tin	ppm	ASTM D5185(m)	>9	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	128	---
Barium	ppm	ASTM D5185(m)	10	0	---
Molybdenum	ppm	ASTM D5185(m)	100	44	---
Manganese	ppm	ASTM D5185(m)		0	---
Magnesium	ppm	ASTM D5185(m)	450	417	---
Calcium	ppm	ASTM D5185(m)	3000	1522	---
Phosphorus	ppm	ASTM D5185(m)	1150	1025	---
Zinc	ppm	ASTM D5185(m)	1350	1141	---
Sulfur	ppm	ASTM D5185(m)	4250	4333	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

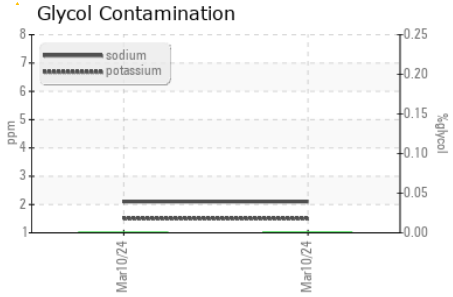
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	▲ 32	---
Sodium	ppm	ASTM D5185(m)	>158	2	---
Potassium	ppm	ASTM D5185(m)	>20	2	---
Fuel	%	ASTM D7593*	>4.0	▲ 2.7	---
Glycol	%	ASTM D7922*		0.0	---

INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.7	---



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FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Oxidation	Abs./1mm ASTM D7414*	11.9	---	---

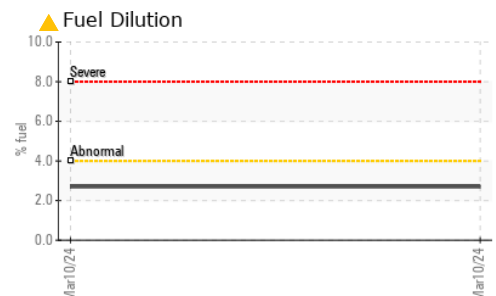
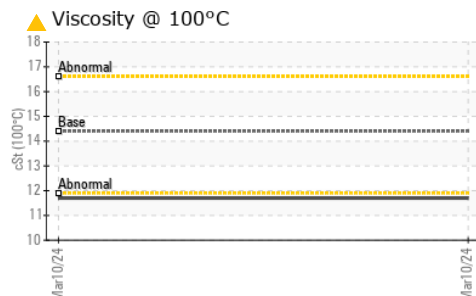
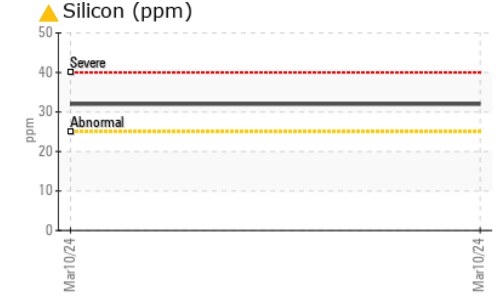
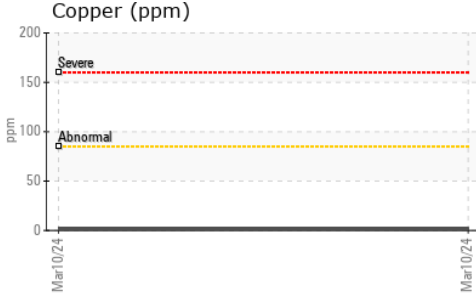
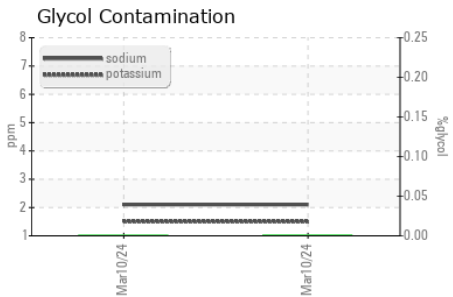
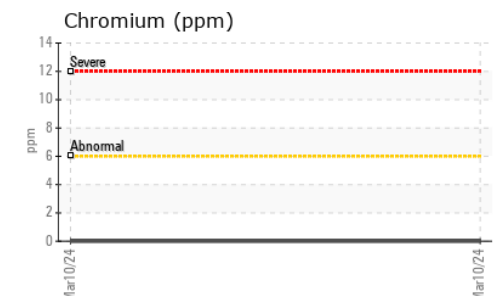
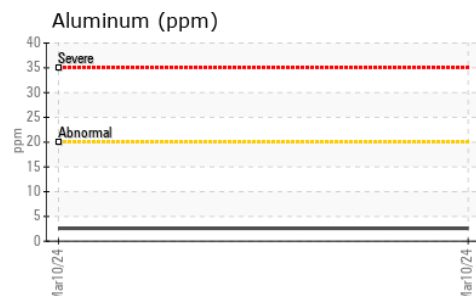
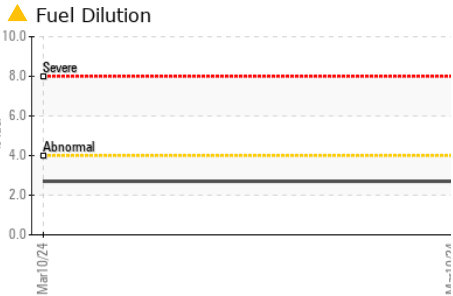
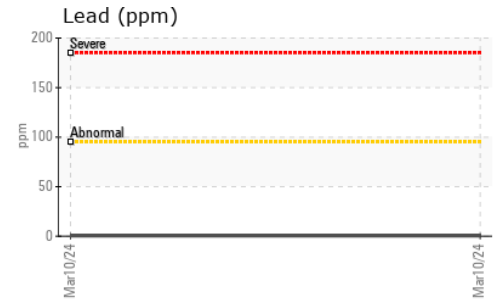
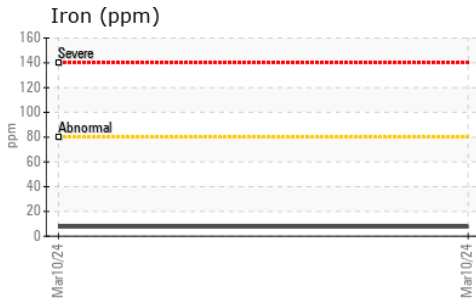
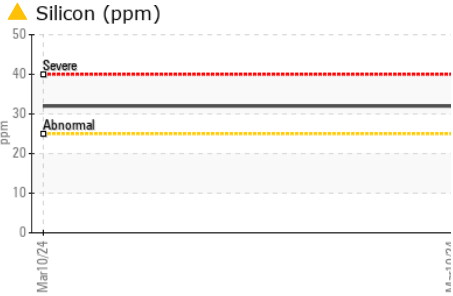
VISUAL

Method	Limit/Base	Current	History1	History2
Emulsified Water	scalar Visual*	▲ .2%	---	---
Free Water	scalar Visual*	▲ 1%	---	---

FLUID PROPERTIES

Method	Limit/Base	Current	History1	History2
Visc @ 100°C	cSt ASTM D7279(m)	▲ 11.7	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP0000677 **Received** : 11 Mar 2024
Lab Number : 02621031 **Tested** : 13 Mar 2024
Unique Number : 5746150 **Diagnosed** : 13 Mar 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

EUROPA LANDSCAPING
 6241 TRAFALGAR ROAD
 MILTON, ON
 CA L93 0Z8
 Contact: Mark
 markvanlandschoot1@gmail.com

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.