



OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
NOT GIVEN WC0800720
 Component
Diesel Engine
 Fluid
ALPHA 15W40 (--- QTS)

DIAGNOSIS

▲ Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0800720	---	---
Sample Date	Client Info	23 May 2023	---	---
Machine Age	hrs Client Info	665	---	---
Oil Age	hrs Client Info	494	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >100	11	---	---
Chromium ppm	ASTM D5185m >20	<1	---	---
Nickel ppm	ASTM D5185m >4	<1	---	---
Titanium ppm	ASTM D5185m	<1	---	---
Silver ppm	ASTM D5185m >3	0	---	---
Aluminum ppm	ASTM D5185m >20	<1	---	---
Lead ppm	ASTM D5185m >40	<1	---	---
Copper ppm	ASTM D5185m >330	17	---	---
Tin ppm	ASTM D5185m >15	<1	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<1	---	---
Barium ppm	ASTM D5185m	0	---	---
Molybdenum ppm	ASTM D5185m	6	---	---
Manganese ppm	ASTM D5185m	<1	---	---
Magnesium ppm	ASTM D5185m	12	---	---
Calcium ppm	ASTM D5185m	3366	---	---
Phosphorus ppm	ASTM D5185m	835	---	---
Zinc ppm	ASTM D5185m	1015	---	---
Sulfur ppm	ASTM D5185m	3740	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	17	---	---
Sodium ppm	ASTM D5185m	2	---	---
Potassium ppm	ASTM D5185m >20	1	---	---
Fuel %	ASTM D3524 >5	▲ 2.0	---	---

INFRA-RED

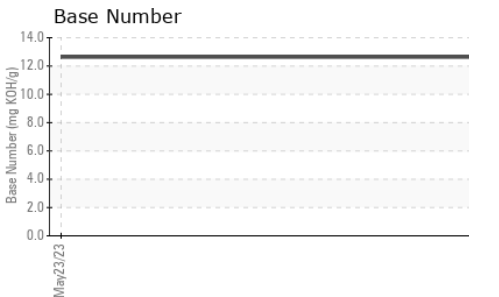
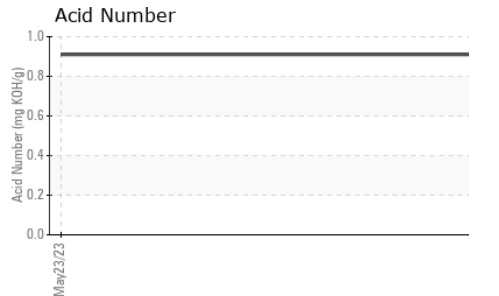
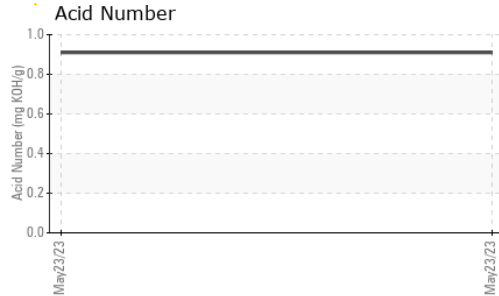
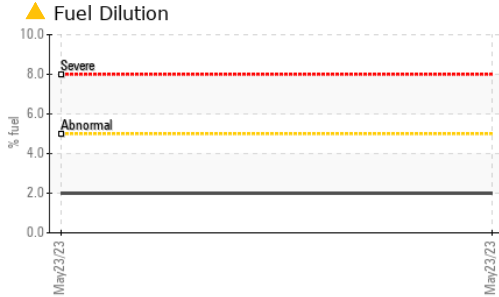
method	limit/base	current	history1	history2
Soot %	*ASTM D7844 >3	0.1	---	---
Nitration	Abs/cm *ASTM D7624 >20	8.2	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	33.7	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	33.2	---	---
Acid Number (AN)	mg KOH/g ASTM D8045	0.91	---	---
Base Number (BN)	mg KOH/g ASTM D2896	12.63	---	---



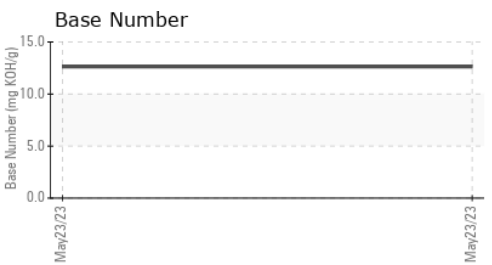
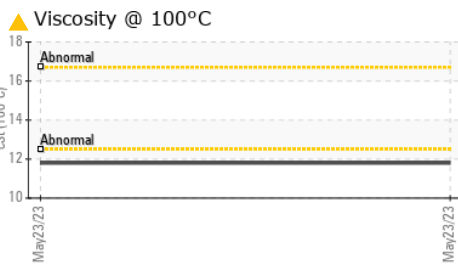
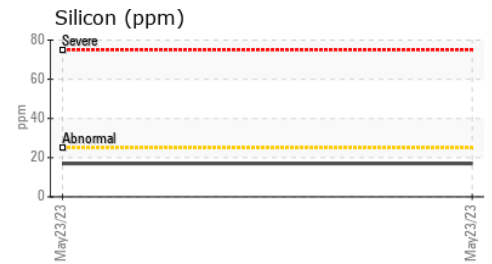
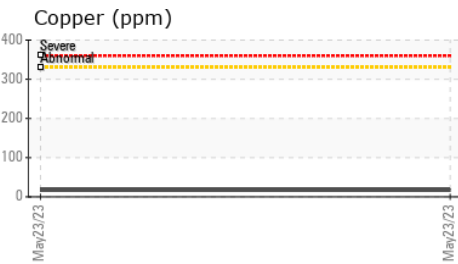
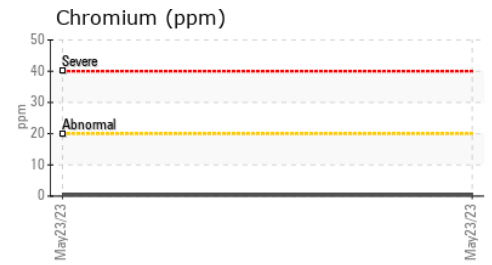
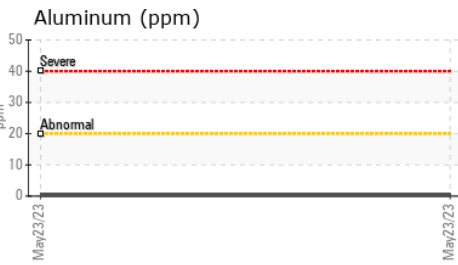
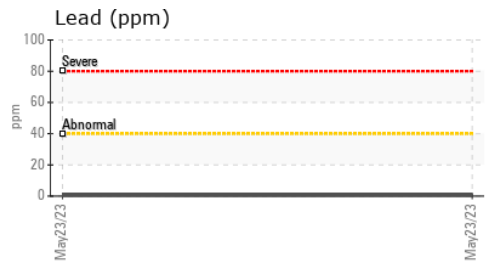
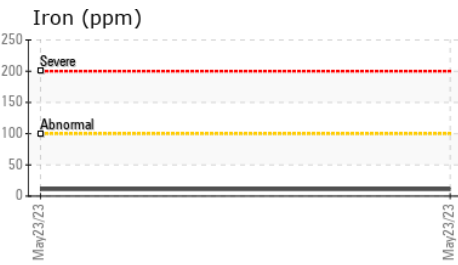
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
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 @ 100°C	cSt	ASTM D445	▲ 11.8	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0800720 **Received** : 25 May 2023
Lab Number : 05856788 **Diagnosed** : 26 May 2023
Unique Number : 10486143 **Diagnostician** : Angela Borella
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)