

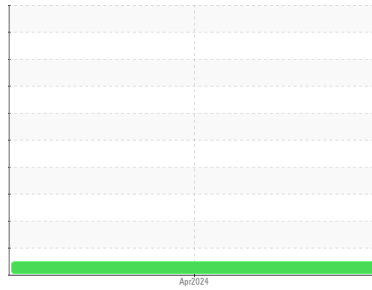


OIL ANALYSIS REPORT



Area
CEC-R
 Machine Id
LINK-BELT 138 HSL P8L3-7363
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (7 GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor.

Wear
 Metal levels are typical for a new component breaking in.

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

Fluid Condition
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		LBC0000546	---	---
Sample Date	Client Info		22 Apr 2024	---	---
Machine Age	hrs Client Info		583	---	---
Oil Age	hrs Client Info		583	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	15	---	---
Chromium	ppm ASTM D5185m	>20	0	---	---
Nickel	ppm ASTM D5185m	>4	0	---	---
Titanium	ppm ASTM D5185m		0	---	---
Silver	ppm ASTM D5185m	>3	0	---	---
Aluminum	ppm ASTM D5185m	>20	3	---	---
Lead	ppm ASTM D5185m	>40	0	---	---
Copper	ppm ASTM D5185m	>330	25	---	---
Tin	ppm ASTM D5185m	>15	0	---	---
Vanadium	ppm ASTM D5185m		0	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	250	117	---	---
Barium	ppm ASTM D5185m	10	5	---	---
Molybdenum	ppm ASTM D5185m	100	61	---	---
Manganese	ppm ASTM D5185m		2	---	---
Magnesium	ppm ASTM D5185m	450	412	---	---
Calcium	ppm ASTM D5185m	3000	1928	---	---
Phosphorus	ppm ASTM D5185m	1150	1065	---	---
Zinc	ppm ASTM D5185m	1350	1303	---	---
Sulfur	ppm ASTM D5185m	4250	4149	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	24	---	---
Sodium	ppm ASTM D5185m		2	---	---
Potassium	ppm ASTM D5185m	>20	0	---	---

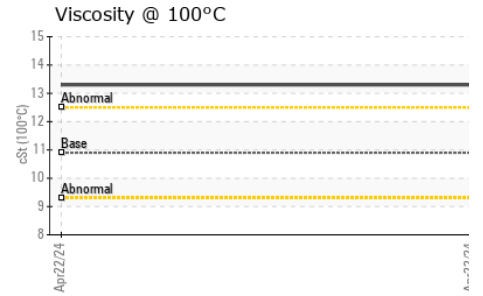
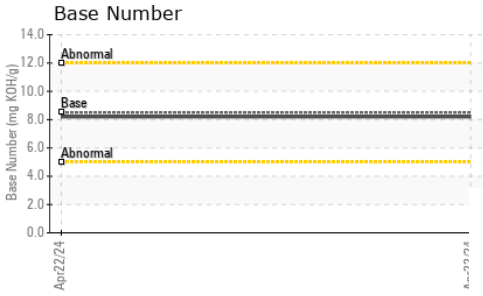
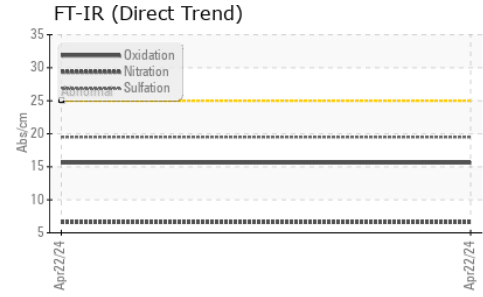
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.1	---	---
Nitration	Abs/cm *ASTM D7624	>20	6.6	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	19.5	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	15.6	---	---
Base Number (BN)	mg KOH/g ASTM D2896	8.5	8.2	---	---

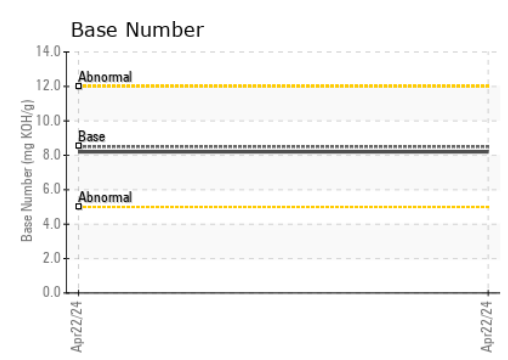
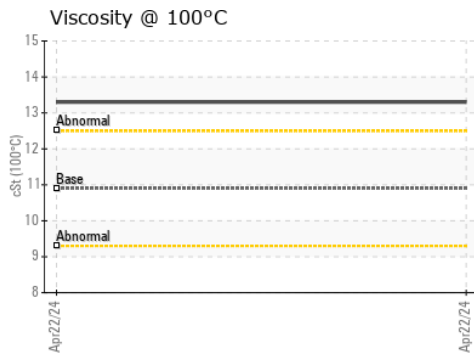
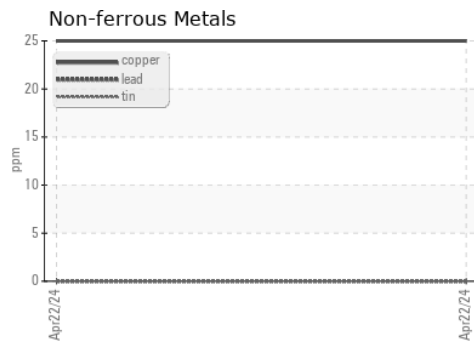
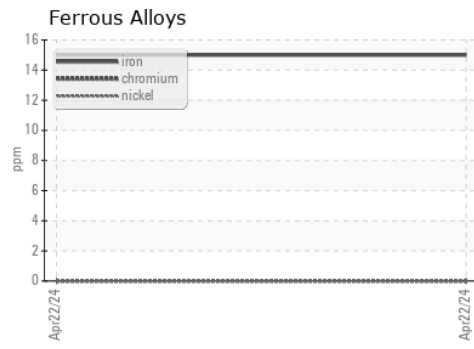
OIL ANALYSIS REPORT



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	10.9	13.3	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LBC0000546 **Received** : 25 Apr 2024
Lab Number : **06160064** **Tested** : 25 Apr 2024
Unique Number : 10995487 **Diagnosed** : 26 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: TBN)

Columbus Equipment Co. - P103900
 2329 Performance Way
 Columbus, OH
 US 43207
 Contact: Brody Parsons
 brodeyp@columbusequipment.com

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)