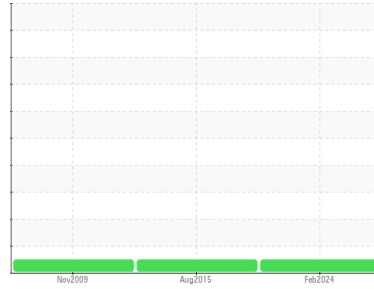




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
WHITE 80
 Component
Diesel Engine
 Fluid
CENPECO SE 15W40 (12 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0617369	WCM2179352	WCM2120139
Sample Date	Client Info			03 Feb 2024	13 Aug 2015	28 Nov 2009
Machine Age	hrs	Client Info		1848	0	2686
Oil Age	hrs	Client Info		543	426	483
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	34	36	26
Chromium	ppm	ASTM D5185m	>20	3	3	3
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	5	3	3
Lead	ppm	ASTM D5185m	>40	9	5	2
Copper	ppm	ASTM D5185m	>330	34	14	4
Tin	ppm	ASTM D5185m	>15	<1	9	0
Antimony	ppm	ASTM D5185m		---	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0

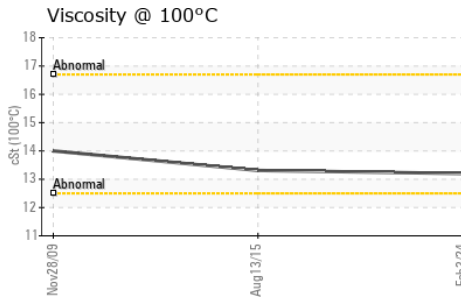
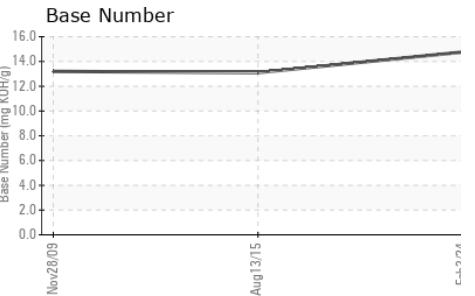
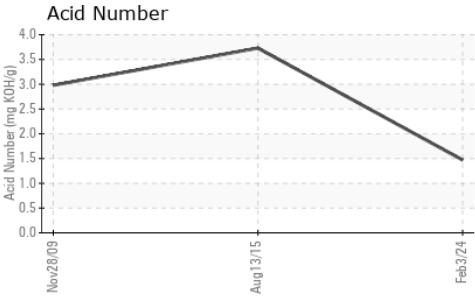
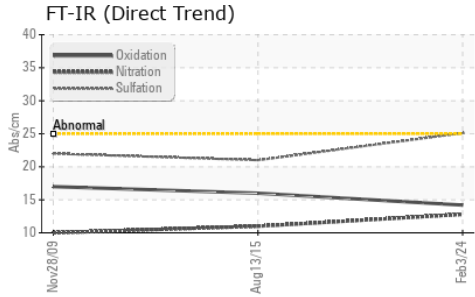
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	<1	3
Barium	ppm	ASTM D5185m		122	115	109
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		432	458	399
Calcium	ppm	ASTM D5185m		4303	3925	3513
Phosphorus	ppm	ASTM D5185m		1495	1320	1239
Zinc	ppm	ASTM D5185m		1664	1410	1482
Sulfur	ppm	ASTM D5185m		6626	5753	6757

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	8	12
Sodium	ppm	ASTM D5185m		4	5	5
Potassium	ppm	ASTM D5185m	>20	2	11	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.1	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	12.8	11.	10.
Sulfation	Abs./1mm	*ASTM D7415	>30	25.1	21.	22.



OIL ANALYSIS REPORT

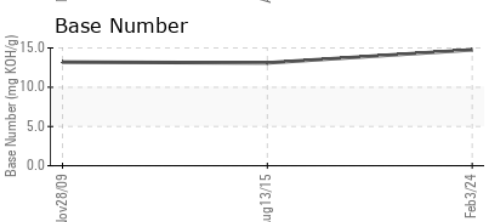
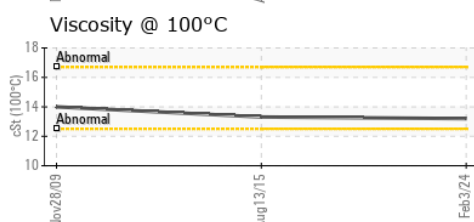
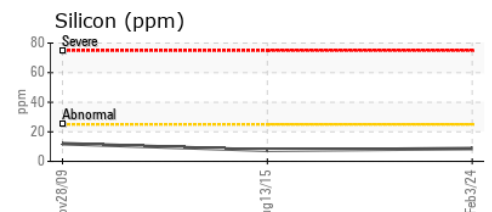
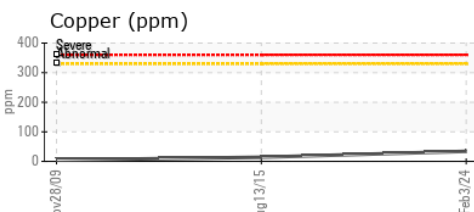
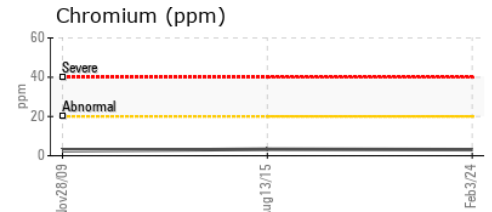
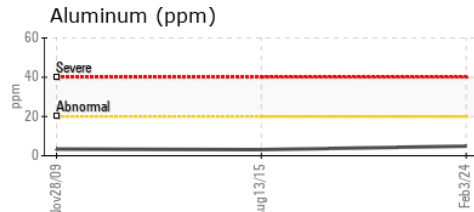
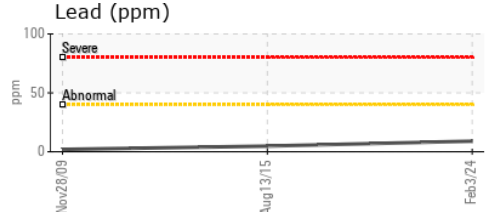
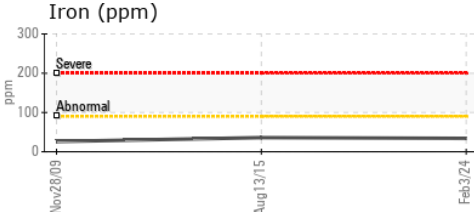


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	*ASTM D7414	>25	14.2	16.	17.
Acid Number (AN)	mg KOH/g	ASTM D8045		1.47	3.73	2.98
Base Number (BN)	mg KOH/g	ASTM D2896		14.76	13.1	13.2

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.2	13.31	14.00

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0617369 **Received** : 24 Apr 2024
Lab Number : 06159305 **Tested** : 25 Apr 2024
Unique Number : 10994728 **Diagnosed** : 26 Apr 2024 - Don Baldrige
Test Package : MOB 2

WAYNE F. BEERY
 6696 BRIERY BRANCH RD
 DAYTON, VA
 US 22821
 Contact: ANDREW/WAYNE BEERY
 cedarrunag@upwardprint.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)

T: (540)828-1859

F: