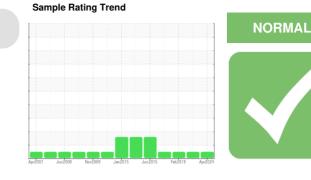


OIL ANALYSIS REPORT



Machine Id **CASE 1845C 1845C (S/N JAF0275370)** Component **Diesel Engine** Fluid **CENPECO S3 15W40 (11 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 INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0617368	WCM063237	WCM264409
Sample Date		Client Info		16 Apr 2024	16 Feb 2021	16 Feb 2019
Machine Age	hrs	Client Info		13307	12202	11079
Oil Age	hrs	Client Info		1105	1123	960
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	27	19	22
Chromium	ppm	ASTM D5185m	>20	2	1	1
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m		3	<1	<1
Lead	ppm	ASTM D5185m	>40	6	1	2
Copper	ppm	ASTM D5185m		6	13	3
Tin	ppm		>15	<1	<1	<1
Antimony Vanadium	ppm	ASTM D5185m ASTM D5185m		 <1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
	ppm		1. 1. //			-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	2	2
Barium	ppm	ASTM D5185m ASTM D5185m		121 1	124 <1	121 <1
Molybdenum Manganese	ppm	ASTM D5185m		۱ <1	<1	<1
Magnesium	ppm ppm	ASTM D5185m		409	395	352
Calcium	ppm	ASTM D5185m		4275	4678	4363
Phosphorus	ppm	ASTM D5185m		1507	1414	1341
Zinc	ppm	ASTM D5185m		1685	1502	1443
Sulfur	ppm	ASTM D5185m		6457	5056	5222
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	5
Sodium	ppm	ASTM D5185m		13	3	1
Potassium	ppm	ASTM D5185m	>20	19	8	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	14.2	10.9	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.4	23	21.8



OIL ANALYSIS REPORT

	Certificate L2367	Laboratory Sample No. Lab Number Unique Number Test Package	: 10994731	Recei Teste Diagn	ved : 24 d : 25 osed : 26	, NC 27513 Apr 2024 Apr 2024 Apr 2024 - Dor	n Baldridge Conta		(NE F. BEERY Y BRANCH RD DAYTON, VA US 22821 (AYNE BEERY
			Viscosity @ 100°C			(B)(H)(B)(B)(B)(B)(B)(B)(B)(B)(B)(B)(B)(B)(B)	Base Number	\sim	
Apri 7/07	Jan17/15 +	Feb16/19	000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Jan 17/15 • • • • • • • • • •	Jun20/15	4pr16/24	0 - Abnormal	Jan 17/15	Feb 16/19
18 17 Abnormal 16 50 15 14 13 12 Abnormal	~	~~~	Abnormal 20 400 400 400 400 400 400 400	Jan17/15	Jun20/15 + Feb16/19	Apri 6/24	0 L0/L1/Judy Silicon (ppm)		Feb16/19 Apr16/24
Viscosity @ 100	Jan 17/15	Feb16/19	Aluminum (ppm)			4 4	0 - Severe	י m)	
(0)H012.0 H020 H			2000 - Abnormal 1000 - L0//L1/dW 0 - L0//L1/dW	Jan17/15	Jun20/15 +	Apri6/24	0	Jan 17/15	Feb 16/19 Apr16/24
Base Number	Jan, Jan, Jan, Jan, Jan, Jan, Jan, Jan,	Feb	Visc @ 100°C GRAPHS Iron (ppm)	cSt	ASTM D445	10	13.2 Lead (ppm)	13.9	13.5
Apr17/07 Jun4/08	Jan 17/15	Feb16/19	FLUID PROPERT	IES	method	limit/base	current	history1	history2
(04.0- HOX Bul) 30.0- Jaquingu 20.0- Dig 20.0- Dig 10.0-		$\overline{\mathbf{V}}$	Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NORML NORML >0.2	NORML NORML NEG NEG	NORML NORML NEG NEG	NORML NORML NEG NEG
Acid Number	Jan 17/15.	Feb16/19 Apr16/24	Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE NONE
15- 10- 5-			VISUAL White Metal	scalar	method *Visual	limit/base	current NONE	history1 NONE	history2 NONE
35 30 525 4 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30	<u> </u>		Oxidation Acid Number (AN) Base Number (BN)	Abs/.1mm mg KOH/g mg KOH/g	*ASTM D7414 ASTM D8045 ASTM D2896	>25	15.5 1.97 13.35	13.2 1.105 14.1	14.9 1.266 13.3

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Contact/Location: ANDREW/WAYNE BEERY - WAYDAY