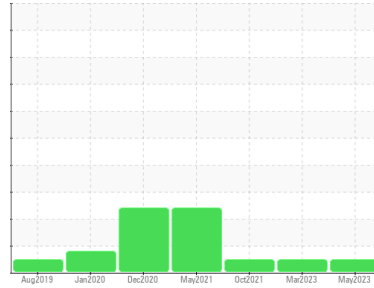




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[BECELC]
 Machine Id
FORD F250 7.3L POWERSTROKE
 Component
Diesel Engine
 Fluid
ALPHA LUBRICANTS PREMIUM 15W40 (4 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Alpha Lubricants Premium 15w40)

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		WC0472443	WC0472442	WC0472463
Sample Date	Client Info		12 May 2023	02 Mar 2023	27 Oct 2021
Machine Age	mls	Client Info	457143	451132	418812
Oil Age	mls	Client Info	6011	8642	6542
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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 >100	43	94	52
Chromium	ppm	ASTM D5185m >20	<1	3	4
Nickel	ppm	ASTM D5185m >2	<1	1	<1
Titanium	ppm	ASTM D5185m >2	0	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	3	5	2
Lead	ppm	ASTM D5185m >40	5	20	7
Copper	ppm	ASTM D5185m >330	2	10	11
Tin	ppm	ASTM D5185m >15	2	3	4
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	58
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	5	30	22
Manganese	ppm	ASTM D5185m	<1	1	1
Magnesium	ppm	ASTM D5185m	22	37	744
Calcium	ppm	ASTM D5185m	4074	4424	1822
Phosphorus	ppm	ASTM D5185m	955	996	855
Zinc	ppm	ASTM D5185m	1141	1180	944
Sulfur	ppm	ASTM D5185m	3795	4846	2511

CONTAMINANTS

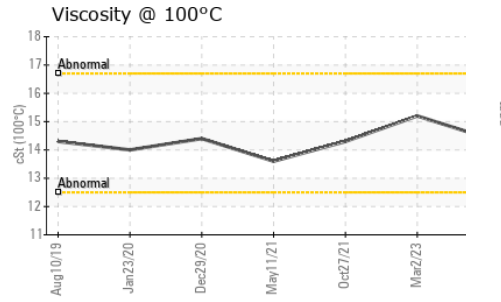
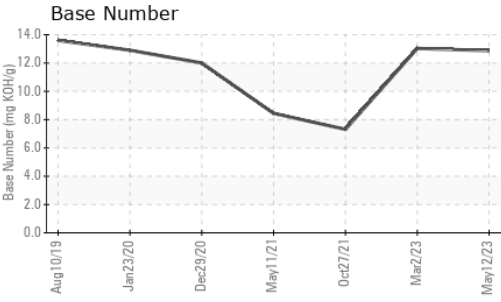
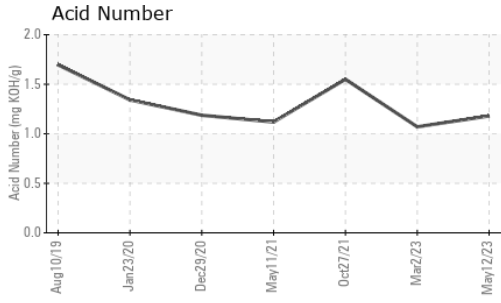
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	12	21
Sodium	ppm	ASTM D5185m	17	4	7
Potassium	ppm	ASTM D5185m >20	0	2	6

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624 >20	10.6	12.0	11.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	39.3	39.4	24.2



OIL ANALYSIS REPORT

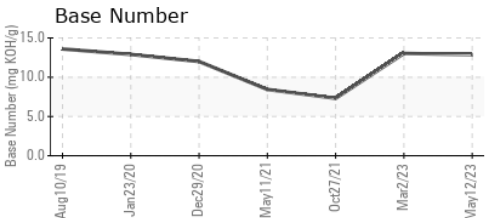
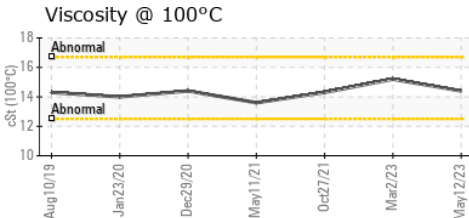
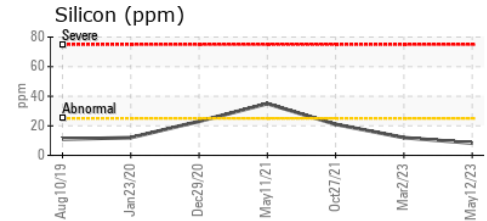
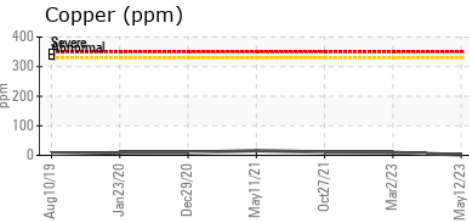
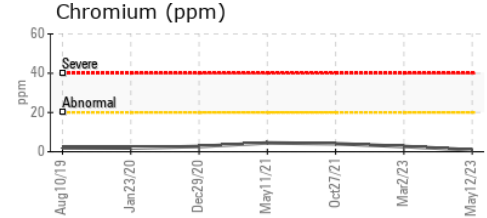
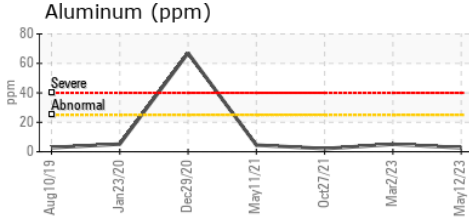
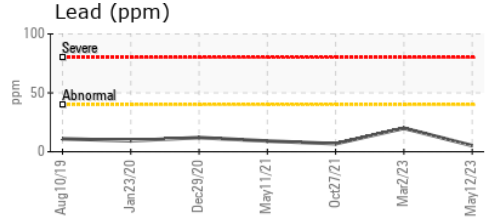
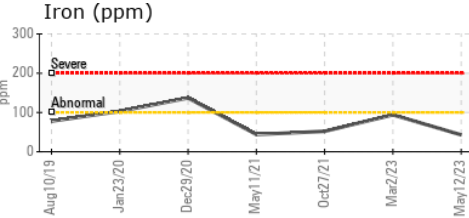


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	41.1	43.8	20.7
Acid Number (AN)	mg KOH/g	ASTM D8045		1.18	1.07	1.55
Base Number (BN)	mg KOH/g	ASTM D2896		12.87	13.03	7.31

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	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		14.4	15.2	14.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0472443 **Received** : 17 Nov 2023
Lab Number : **06011083** **Diagnosed** : 20 Nov 2023
Unique Number : 10750227 **Diagnostician** : Sean Felton
Test Package : MOB 2

BECKER LAND GRADING
 9673 N STATE HWY 71
 EL CAMPO, TX
 US 77437
 Contact: DALYN BECKER
 dalyn@beckerlandgrading.com
 T: (979)253-4531
 F:

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)