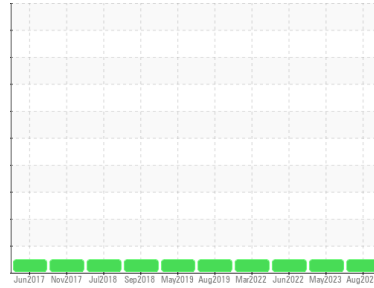




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
CONSTRUCTORS, INC
 Machine Id
FORD GASOLINE 04-0633
 Component
Gasoline Engine
 Fluid
MOBIL MOBIL 1 EXT PERFORMANCE 5W20 (--- GAL)

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 condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	SBP0004745	SBP0003769	SBP0001180
Sample Date	Client Info	11 Aug 2023	11 May 2023	08 Jun 2022
Machine Age	hrs	9048	8784	8241
Oil Age	hrs	264	254	316
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >4.0	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >150	11	40	11
Chromium	ppm ASTM D5185m >20	<1	1	<1
Nickel	ppm ASTM D5185m >5	0	<1	0
Titanium	ppm ASTM D5185m	<1	<1	0
Silver	ppm ASTM D5185m >2	0	0	<1
Aluminum	ppm ASTM D5185m >40	1	1	2
Lead	ppm ASTM D5185m >50	<1	0	<1
Copper	ppm ASTM D5185m >155	1	2	<1
Tin	ppm ASTM D5185m >10	<1	<1	<1
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 100	33	27	28
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m 80	65	66	45
Manganese	ppm ASTM D5185m	1	2	<1
Magnesium	ppm ASTM D5185m 800	521	500	562
Calcium	ppm ASTM D5185m 1125	1280	1281	1294
Phosphorus	ppm ASTM D5185m 720	677	662	698
Zinc	ppm ASTM D5185m 790	820	795	853
Sulfur	ppm ASTM D5185m 2100	3439	3239	2511

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >30	5	8	5
Sodium	ppm ASTM D5185m >400	2	7	2
Potassium	ppm ASTM D5185m >20	2	4	<1

INFRA-RED

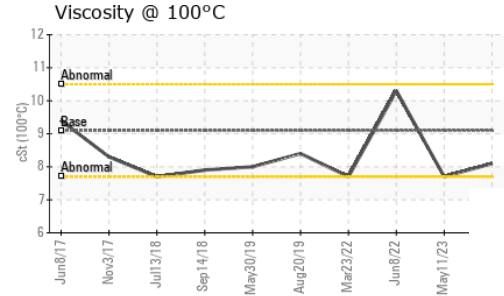
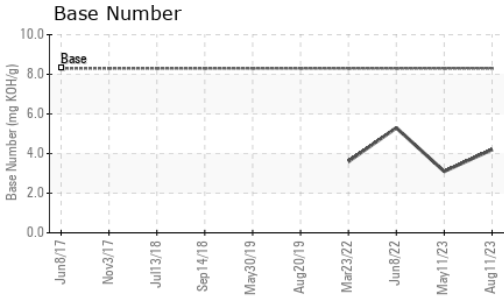
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0.1	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	9.9	12.6	11.4
Sulfation	Abs/.1mm *ASTM D7415 >30	21.1	25.1	22.6

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.0	18.5	19.8
Base Number (BN)	mg KOH/g ASTM D2896 8.3	4.2	3.1	5.3



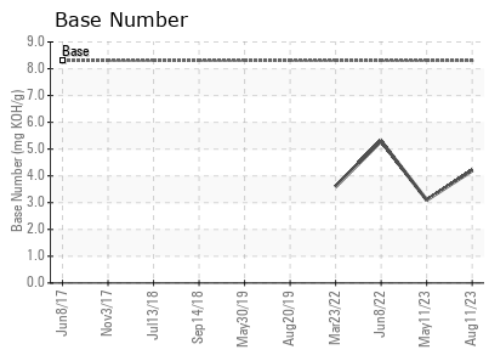
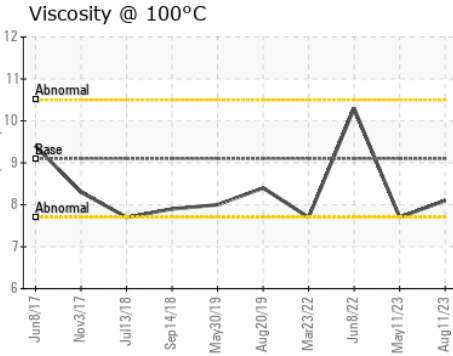
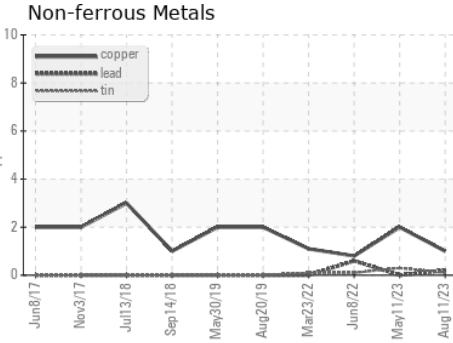
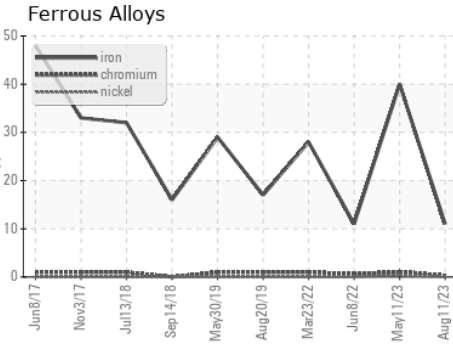
OIL ANALYSIS REPORT



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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 9.1	8.1	7.7	10.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0004745 **Received** : 14 Aug 2023
Lab Number : **05924022** **Diagnosed** : 15 Aug 2023
Unique Number : 10603969 **Diagnostician** : Sean Felton
Test Package : FLEET

Constructors Inc. - 603659
 1815 Y Street
 Lincoln, NE
 US 68508
 Contact: Jack Linhart
 jackl@constructorslincoln.com
 T: (402)434-2157
 F:

Certificate L2367
 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)