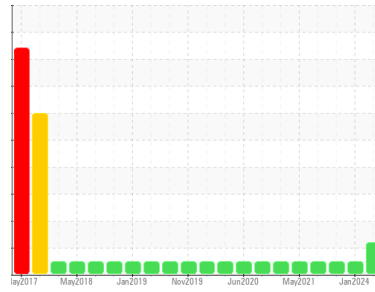




OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area
CONSTRUCTORS, INC

Machine Id
040688

Component
Gasoline Engine

Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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 level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0007124	SBP0005718	SBP0002279
Sample Date	Client Info		11 Jul 2024	04 Jan 2024	05 Jan 2023
Machine Age	hrs	Client Info	8065	7674	7067
Oil Age	hrs	Client Info	391	309	351
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<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 >150	47	31	24
Chromium	ppm	ASTM D5185m >20	4	3	2
Nickel	ppm	ASTM D5185m >5	<1	<1	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >40	7	6	4
Lead	ppm	ASTM D5185m >50	0	<1	1
Copper	ppm	ASTM D5185m >155	13	8	13
Tin	ppm	ASTM D5185m >10	0	<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	28	44	48
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	70	70	73
Manganese	ppm	ASTM D5185m	2	1	<1
Magnesium	ppm	ASTM D5185m	496	550	530
Calcium	ppm	ASTM D5185m	1278	1219	1273
Phosphorus	ppm	ASTM D5185m	674	726	676
Zinc	ppm	ASTM D5185m	766	856	860
Sulfur	ppm	ASTM D5185m	2999	2926	3364

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	20	17	8
Sodium	ppm	ASTM D5185m >400	5	3	3
Potassium	ppm	ASTM D5185m >20	4	2	2

INFRA-RED

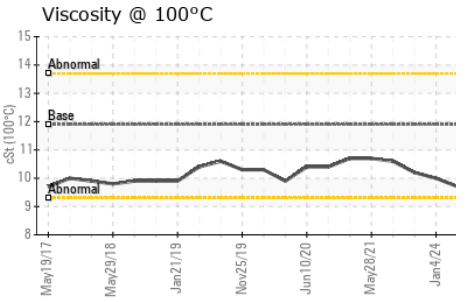
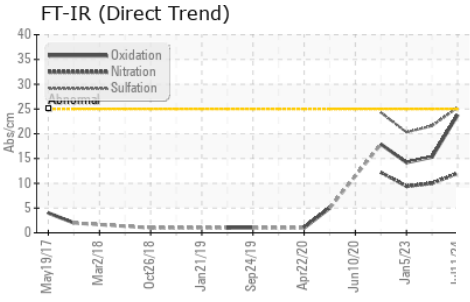
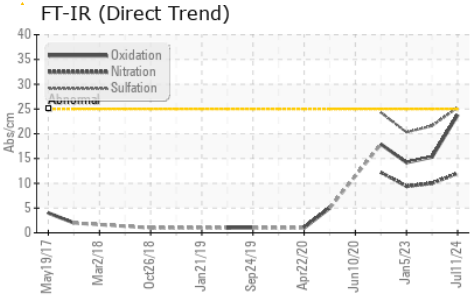
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	12.0	10.0	9.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.3	21.6	20.3

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	23.8	15.3	14.2
Base Number (BN)	mg KOH/g	ASTM D2896 10.5	▲ 2.4	4.1	3.6



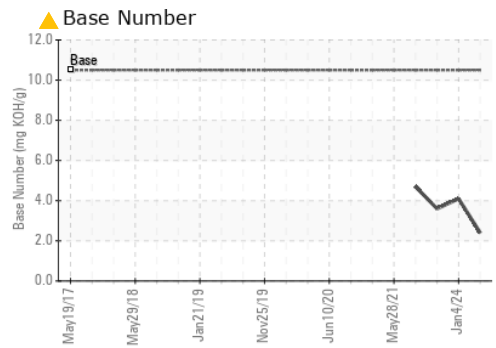
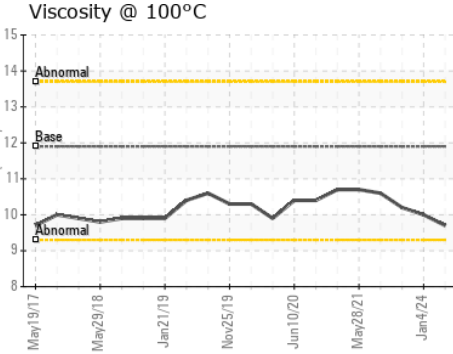
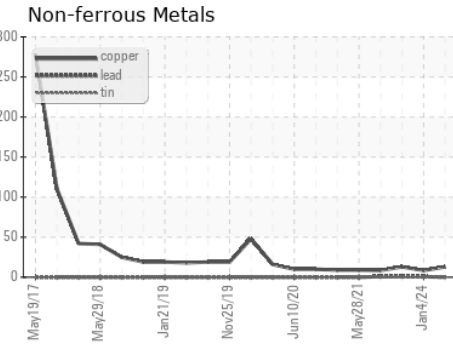
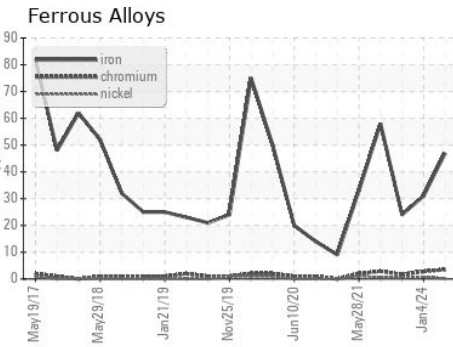
OIL ANALYSIS REPORT



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	11.9	9.7	10.0	10.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007124 **Received** : 15 Jul 2024
Lab Number : **06237427** **Tested** : 16 Jul 2024
Unique Number : 11126261 **Diagnosed** : 18 Jul 2024 - Jonathan Hester
Test Package : FLEET

Constructors Inc. - 603659
 6500 N 70TH ST
 LINCOLN, NE
 US 68507
 Contact: Loren Michael
 LorenM@constructorslincoln.com
 T: (402)434-2157
 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)