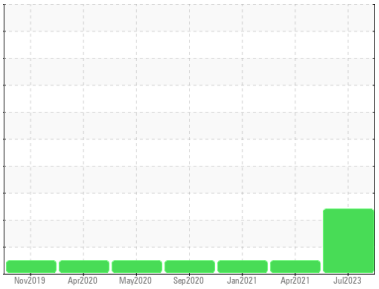
PROBLEM SUMMARY

Area
Watkins Block Truck Shop Omaha
Machine Id
66 [Watkins Block Truck Shop Omaha]
Component
Middle Natural Gas Engine
Fluid
MOBIL SUPER 5W30 (--- GAL)

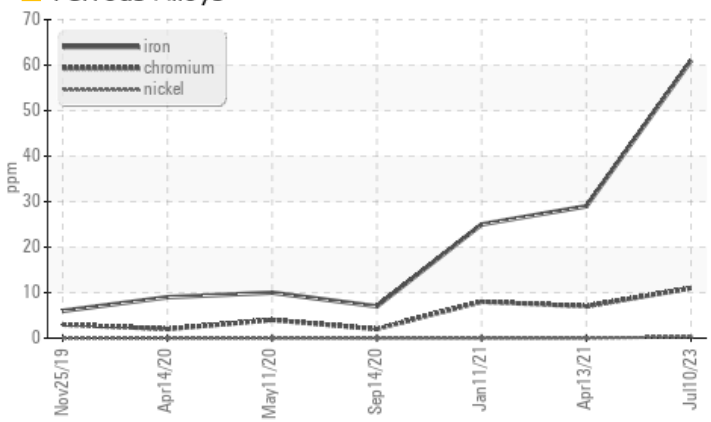
Sample Rating Trend



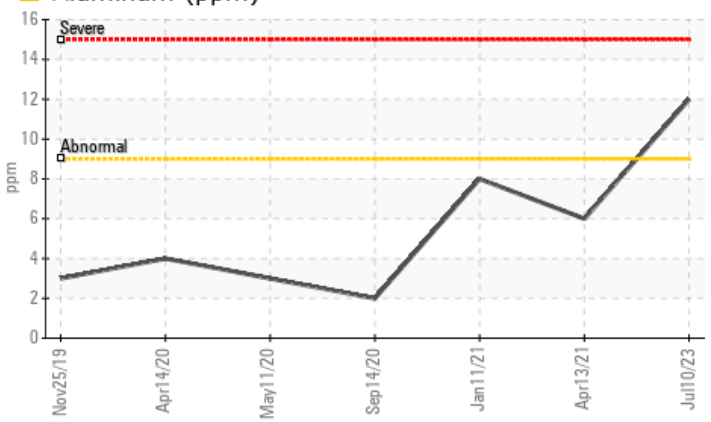
WEAR

COMPONENT CONDITION SUMMARY

Ferrous Alloys



Aluminum (ppm)



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	▲ **61**	29	25
Chromium	ppm	ASTM D5185m	>4	▲ **11**	7	8
Aluminum	ppm	ASTM D5185m	>9	▲ **12**	6	8

Customer Id: WATOMATS
Sample No.: SBP0004682
Lab Number: 05899522
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

13 Apr 2021 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

11 Jan 2021 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

14 Sep 2020 Diag: Wes Davis

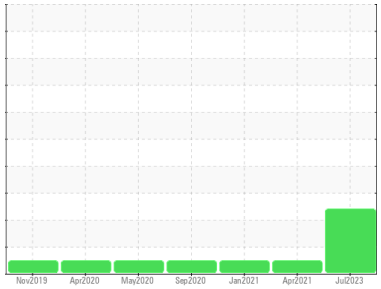
NORMAL

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
Watkins Block Truck Shop Omaha
Machine Id
66 [Watkins Block Truck Shop Omaha]
Component
Middle Natural Gas Engine
Fluid
MOBIL SUPER 5W30 (--- GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
Cylinder, crank, or cam shaft wear is indicated.

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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**SBP0004682**	SBP05446007	SBP25467037
Sample Date		Client Info		**10 Jul 2023**	13 Apr 2021	11 Jan 2021
Machine Age	hrs	Client Info		**7239**	5749	5455
Oil Age	hrs	Client Info		**310**	294	305
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Glycol		WC Method		**---**	0.0	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	▲ **61**	29	25
Chromium	ppm	ASTM D5185m	>4	▲ **11**	7	8
Nickel	ppm	ASTM D5185m	>2	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	▲ **12**	6	8
Lead	ppm	ASTM D5185m	>30	**<1**	0	0
Copper	ppm	ASTM D5185m	>35	**<1**	0	1
Tin	ppm	ASTM D5185m	>4	**1**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**92**	55	48
Barium	ppm	ASTM D5185m		**0**	1	0
Molybdenum	ppm	ASTM D5185m		**97**	171	170
Manganese	ppm	ASTM D5185m		**1**	0	0
Magnesium	ppm	ASTM D5185m		**625**	496	527
Calcium	ppm	ASTM D5185m		**1473**	1375	1377
Phosphorus	ppm	ASTM D5185m		**831**	756	730
Zinc	ppm	ASTM D5185m		**977**	887	858
Sulfur	ppm	ASTM D5185m		**3922**	---	---

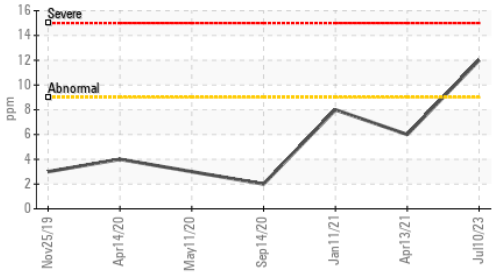
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**18**	10	11
Sodium	ppm	ASTM D5185m		**4**	3	1
Potassium	ppm	ASTM D5185m	>20	**10**	2	3
Chlorine	ppm	ASTM D5185m		**---**	0	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0.16	0.09
Nitration	Abs/cm	*ASTM D7624	>20	**9.8**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.5**	---	---

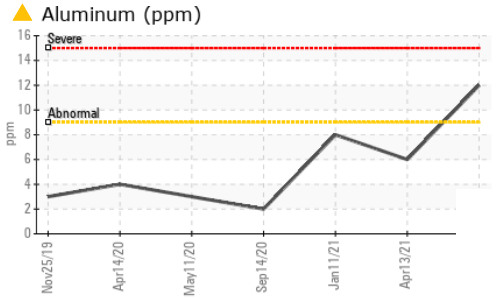
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**11.4**	3	3
Base Number (BN)	mg KOH/g	ASTM D2896		**4.5**	---	---

OIL ANALYSIS REPORT

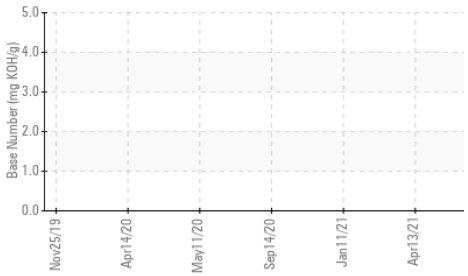
Aluminum (ppm)



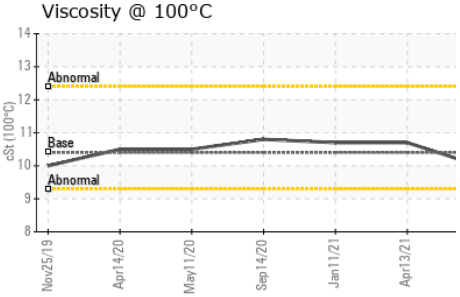
Aluminum (ppm)



Base Number



Viscosity @ 100°C

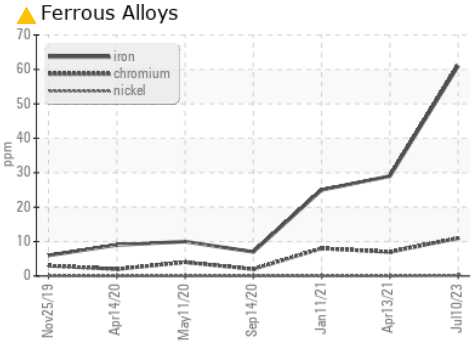


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

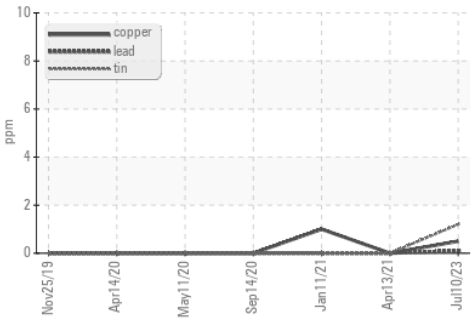
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.4	**10.0**	10.7	10.7

GRAPHS

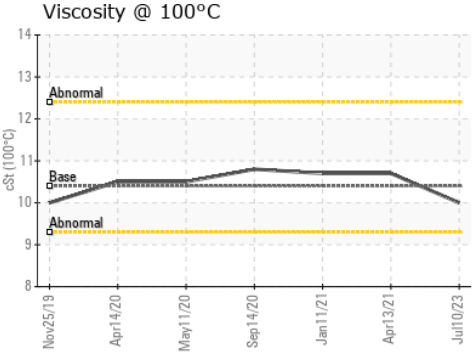
Ferrous Alloys



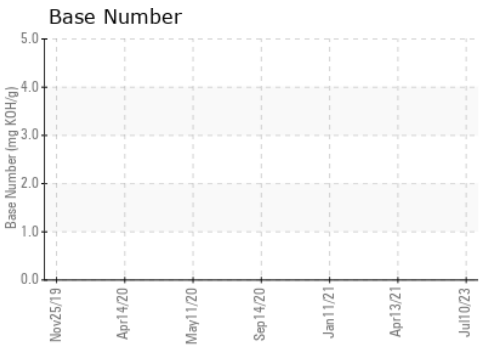
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0004682
Lab Number : 05899522
Unique Number : 10560878
Test Package : FLEET

Received : 17 Jul 2023
Diagnosed : 18 Jul 2023
Diagnostician : Don Baldridge

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)

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