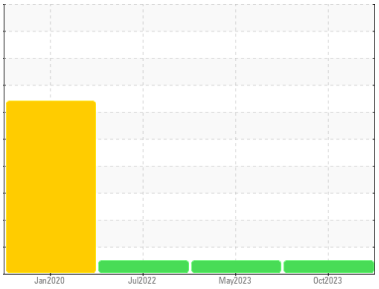
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
Watkins Block Truck Shop Omaha
Machine Id
61 [Watkins Block Truck Shop Omaha]
Component
Middle Natural Gas Engine
Fluid
PETRO CANADA SUPREME 5W30 (--- 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		**SBP0005953**	SBP0002227	SBP0000255
Sample Date		Client Info		**12 Oct 2023**	03 May 2023	28 Jul 2022
Machine Age	hrs	Client Info		**11778**	11044	10409
Oil Age	hrs	Client Info		**295**	299	326
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**6**	14	14
Chromium	ppm	ASTM D5185m	>4	**3**	1	1
Nickel	ppm	ASTM D5185m	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**8**	5	5
Lead	ppm	ASTM D5185m	>30	**0**	0	<1
Copper	ppm	ASTM D5185m	>35	**<1**	0	<1
Tin	ppm	ASTM D5185m	>4	**0**	<1	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	186	**101**	115	44
Barium	ppm	ASTM D5185m	<1	**0**	0	0
Molybdenum	ppm	ASTM D5185m	79	**71**	72	162
Manganese	ppm	ASTM D5185m	0	**0**	<1	<1
Magnesium	ppm	ASTM D5185m	578	**523**	577	534
Calcium	ppm	ASTM D5185m	1002	**1214**	1365	1441
Phosphorus	ppm	ASTM D5185m	745	**722**	743	717
Zinc	ppm	ASTM D5185m	837	**848**	873	920
Sulfur	ppm	ASTM D5185m	2502	**3240**	3567	2361

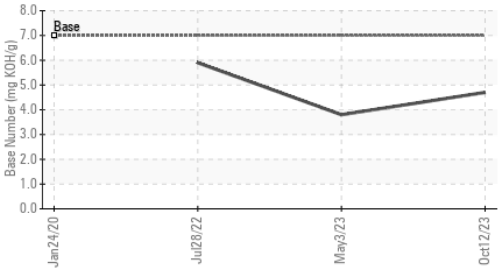
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**11**	13	13
Sodium	ppm	ASTM D5185m		**3**	1	3
Potassium	ppm	ASTM D5185m	>20	**1**	3	<1
Chlorine	ppm	ASTM D5185m		**---**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**7.7**	7.2	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	**17.8**	15.5	19.4

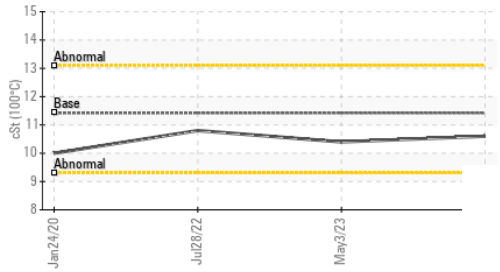
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**10.4**	9.3	10.5
Base Number (BN)	mg KOH/g	ASTM D2896	7.0	**4.7**	3.8	5.9

OIL ANALYSIS REPORT

Base Number



Viscosity @ 100°C

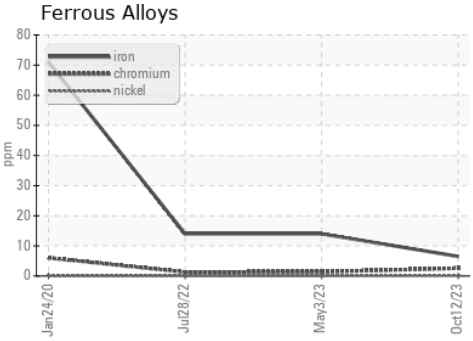


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

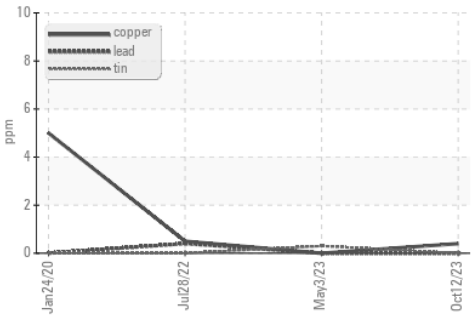
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.42	**10.6**	10.4	10.8

GRAPHS

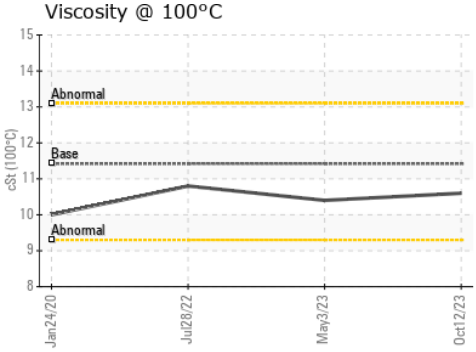
Ferrous Alloys



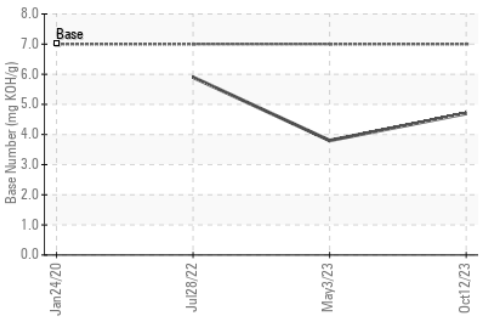
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0005953
Lab Number : 05981820
Unique Number : 10699115
Test Package : FLEET

Received : 17 Oct 2023
Diagnosed : 18 Oct 2023
Diagnostician : Wes Davis

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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