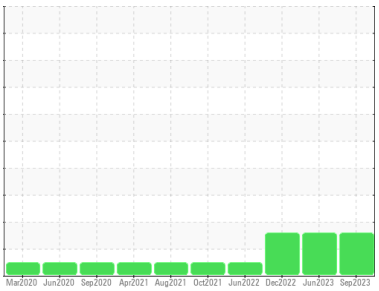
OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
VOLVO VN12 26594 (S/N 4V4WC9EH1JN598492)
Component
Rear Differential
Fluid
PETRO CANADA TRAXON SYNTHETIC 75W90 (--- GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0105549**	PCA0100533	PCA0085281
Sample Date		Client Info		**29 Sep 2023**	28 Jun 2023	21 Dec 2022
Machine Age	mls	Client Info		**518714**	495844	439639
Oil Age	mls	Client Info		**518714**	495844	439639
Oil Changed		Client Info		**Not Changd**	N/A	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**486**	457	384
Chromium	ppm	ASTM D5185m	>10	**3**	3	3
Nickel	ppm	ASTM D5185m	>10	**12**	11	10
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**9**	8	9
Lead	ppm	ASTM D5185m	>25	**1**	0	0
Copper	ppm	ASTM D5185m	>100	**5**	3	3
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	328	**177**	181	161
Barium	ppm	ASTM D5185m	1	**9**	2	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**13**	13	11
Magnesium	ppm	ASTM D5185m	1	**5**	2	5
Calcium	ppm	ASTM D5185m	7	**21**	17	23
Phosphorus	ppm	ASTM D5185m	1145	**1568**	1476	1370
Zinc	ppm	ASTM D5185m	3	**36**	30	29
Sulfur	ppm	ASTM D5185m	17909	**26641**	28387	24476

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **89**	▲ 83	▲ 78
Sodium	ppm	ASTM D5185m		**22**	22	20
Potassium	ppm	ASTM D5185m	>20	**8**	6	6

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	>.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

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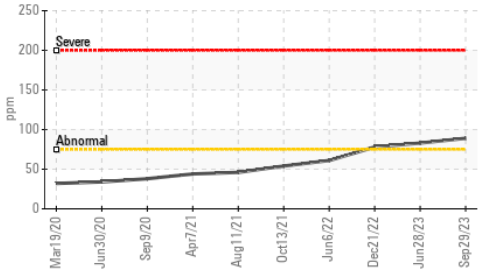
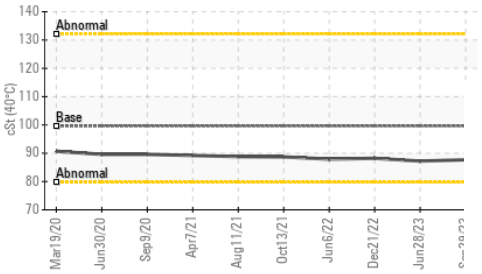
Silicon (ppm)



Viscosity @ 40°C

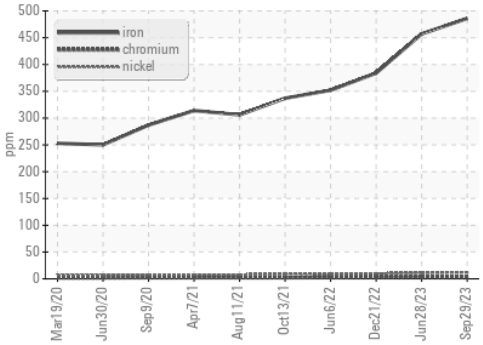


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	99.6	**87.7**	87.2	88.2

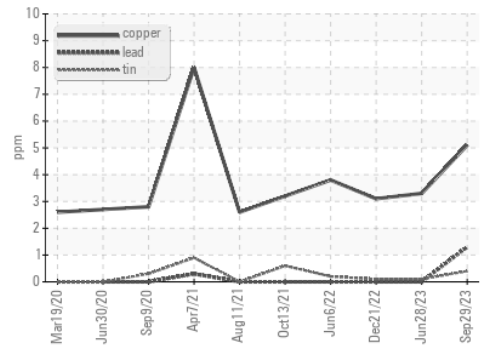
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

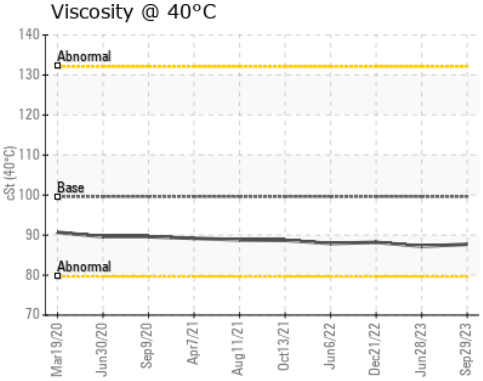
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105549
Lab Number : 06174469
Unique Number : 11020522
Test Package : FLEET

Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 13 May 2024 - Don Baldridge

PERDUE FARMS - BRIDGEVILLE
8634 E NEWTON RD
BRIDGEVILLE, DE
US 19933
Contact: GEORGE LACATES
T:
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)

Report Id: PERBRIDE [WUSCAR] 06174469 (Generated: 05/16/2024 12:59:41) Rev: 1

Submitted By: Jeffrey Mitchell