



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

FLEET

Machine Id

VOLVO 2227053 (S/N 4V4NC9EH3RN631412)

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 10W30 (36 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0119913	PCA0113699	PCA0102841
Sample Date		Client Info		11 Apr 2024	01 Feb 2024	05 Sep 2023
Machine Age	mls	Client Info		79900	60862	20818
Oil Age	mls	Client Info		19038	40044	20818
Filter Age	mls	Client Info		19038	19738	20818
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	24	32
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	3	4	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	3	2	15
Aluminum	ppm	ASTM D5185m	>25	9	21	38
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	195	331	246
Tin	ppm	ASTM D5185m	>15	2	3	4
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

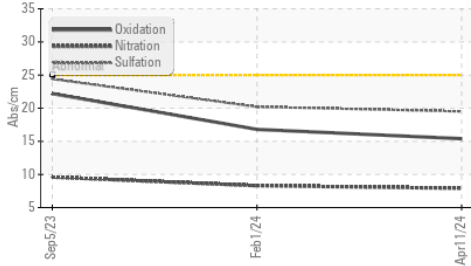
Silicon	ppm	ASTM D5185m	>25	6	11	58
Potassium	ppm	ASTM D5185m	>20	22	54	96
Fuel		WC Method	>6.0	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.9	8.3	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	20.2	24.4
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

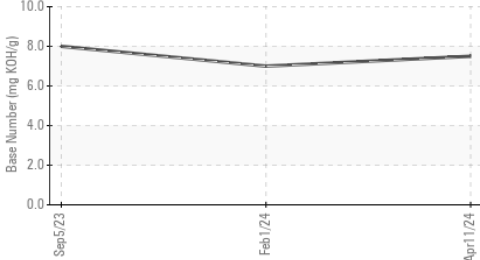
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	4	6
Boron	ppm	ASTM D5185m	2	4	6	202
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	65	113
Manganese	ppm	ASTM D5185m	0	1	2	4
Magnesium	ppm	ASTM D5185m	950	923	873	669
Calcium	ppm	ASTM D5185m	1050	1089	1031	1475
Phosphorus	ppm	ASTM D5185m	995	1041	898	674
Zinc	ppm	ASTM D5185m	1180	1203	1116	770
Sulfur	ppm	ASTM D5185m	2600	2978	2148	2549
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	16.8	22.2
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	7.0	8.0
Visc @ 100°C	cSt	ASTM D445	12.00	10.9	10.4	9.1

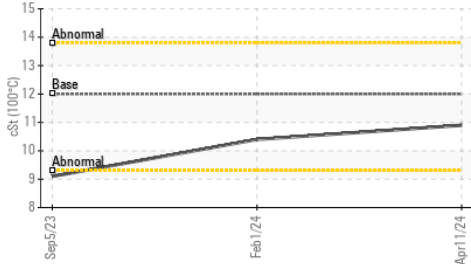
FT-IR (Direct Trend)



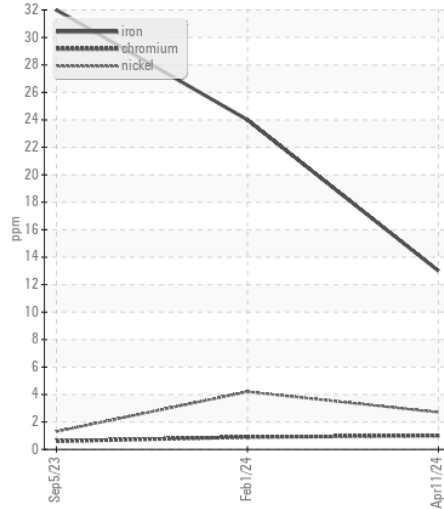
Base Number



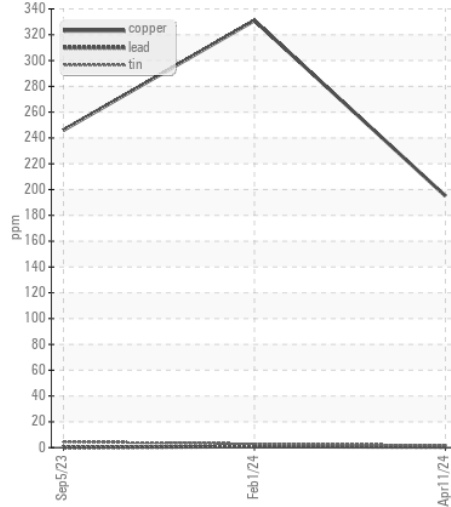
Viscosity @ 100°C



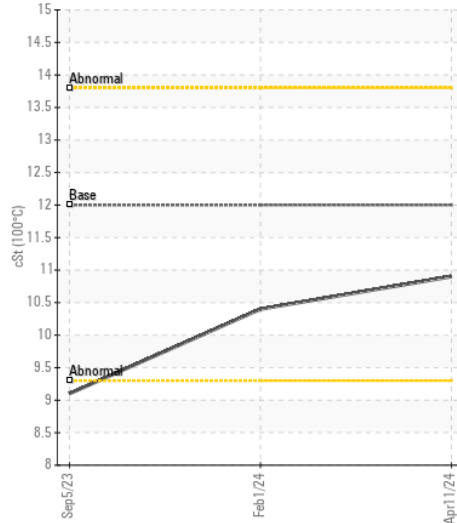
Ferrous Alloys



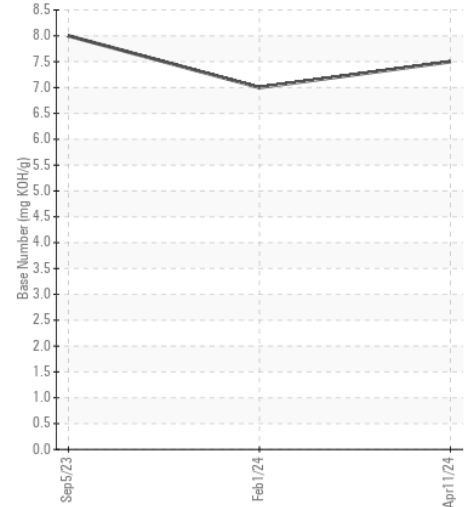
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119913 **Received** : 22 Apr 2024
Lab Number : 06156672 **Tested** : 23 Apr 2024
Unique Number : 10992095 **Diagnosed** : 24 Apr 2024 - Sean Felton
Test Package : FLEET

PERDUE FARMS - ACCOMAC
 22520 LANKFORD HWY
 ACCOMAC, VA
 US 23301
 Contact: PEGGY KIMES
 peggy.kimes@perdue.com
 T: (757)787-5304
 F: (757)787-5208

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)