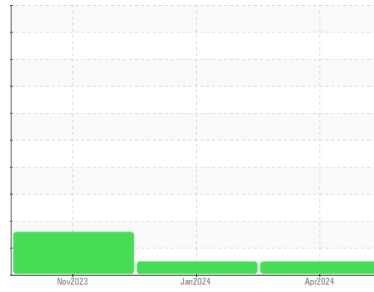


OIL ANALYSIS REPORT

Area
FLEET
 Machine Id
VOLVO 2227056 (S/N 4V4NC9EH6RN631470)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor.

Wear
 Metal levels are typical for a new component breaking in.

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		PCA0119909	PCA0113706	PCA0105981
Sample Date	Client Info		11 Apr 2024	18 Jan 2024	02 Nov 2023
Machine Age	mls	Client Info	58432	40134	20350
Oil Age	mls	Client Info	38648	19784	20350
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<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 >100	13	21	42
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	3	4	2
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >2	2	4	16
Aluminum	ppm	ASTM D5185m >25	4	12	38
Lead	ppm	ASTM D5185m >40	<1	4	2
Copper	ppm	ASTM D5185m >330	255	390	201
Tin	ppm	ASTM D5185m >15	2	2	4
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	3	13	203
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	60	66	115
Manganese	ppm	ASTM D5185m 0	1	1	4
Magnesium	ppm	ASTM D5185m 950	916	1027	712
Calcium	ppm	ASTM D5185m 1050	1081	1207	1472
Phosphorus	ppm	ASTM D5185m 995	1024	989	665
Zinc	ppm	ASTM D5185m 1180	1207	1156	831
Sulfur	ppm	ASTM D5185m 2600	2855	2677	2214

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	17	▲ 87
Sodium	ppm	ASTM D5185m	<1	<1	5
Potassium	ppm	ASTM D5185m >20	11	27	106

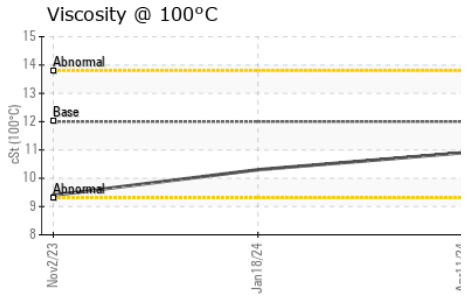
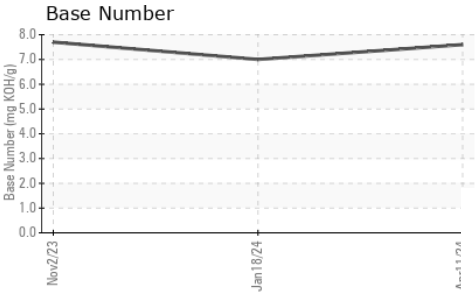
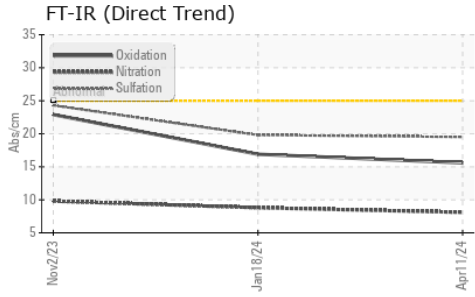
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624 >20	8.1	8.8	9.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.5	19.8	24.3

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.6	16.9	22.9
Base Number (BN)	mg KOH/g	ASTM D2896	7.6	7.0	7.7

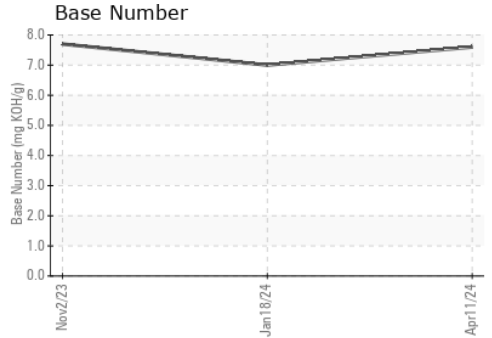
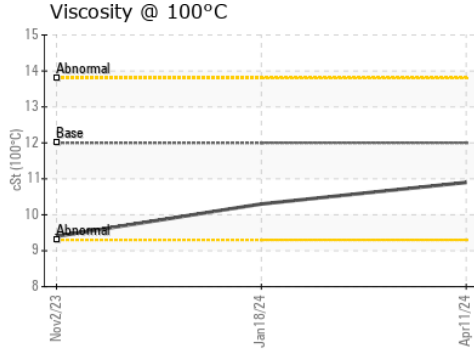
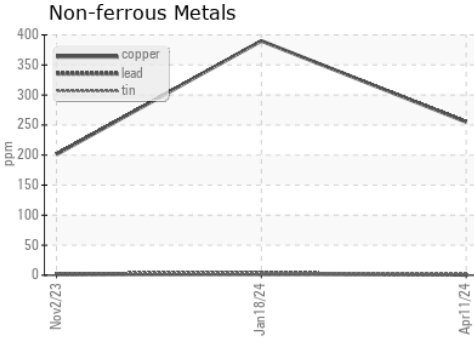
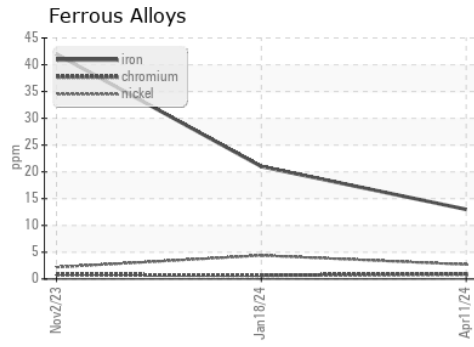
OIL ANALYSIS REPORT



PARAMETER	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	12.00	10.9	10.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119909 **Received** : 22 Apr 2024
Lab Number : 06156675 **Tested** : 23 Apr 2024
Unique Number : 10992098 **Diagnosed** : 23 Apr 2024 - Wes Davis
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)