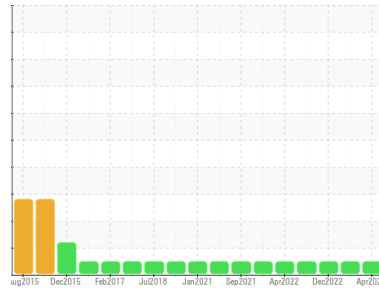


OIL ANALYSIS REPORT

Area
FLEET
 Machine Id
VOLVO VNA 26366 (S/N 4V4MC9EG2EN173858)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (40 QTS)

Sample Rating Trend



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		PCA0119911	PCA0093678	PCA0082257
Sample Date	Client Info		11 Apr 2024	27 Apr 2023	08 Dec 2022
Machine Age	mls	Client Info	480583	438444	422546
Oil Age	mls	Client Info	42139	33339	18475
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

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	22	12	23
Chromium	ppm	ASTM D5185m >20	1	0	<1
Nickel	ppm	ASTM D5185m >2	2	<1	0
Titanium	ppm	ASTM D5185m	<1	4	0
Silver	ppm	ASTM D5185m >2	<1	0	0
Aluminum	ppm	ASTM D5185m >25	5	0	4
Lead	ppm	ASTM D5185m >40	2	<1	3
Copper	ppm	ASTM D5185m >330	6	1	2
Tin	ppm	ASTM D5185m >15	2	<1	1
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	<1	6	3
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	84	50	60
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 950	1330	742	921
Calcium	ppm	ASTM D5185m 1050	1440	1104	1103
Phosphorus	ppm	ASTM D5185m 995	1493	951	947
Zinc	ppm	ASTM D5185m 1180	1734	1121	1207
Sulfur	ppm	ASTM D5185m 2600	4380	2942	2957

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	12	25	6
Sodium	ppm	ASTM D5185m	15	0	13
Potassium	ppm	ASTM D5185m >20	7	2	<1

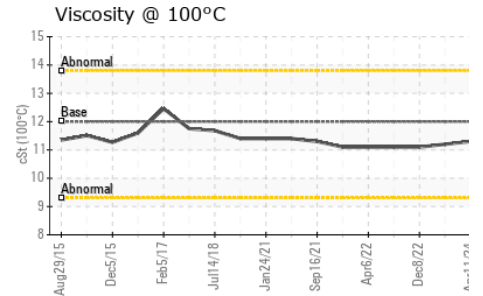
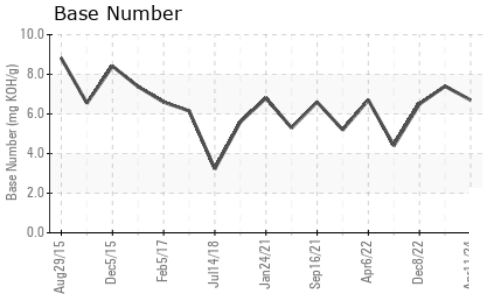
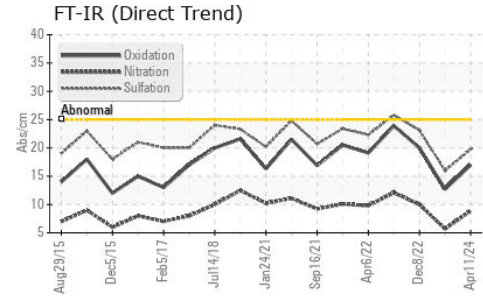
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	0.1	0.4
Nitration	Abs/cm	*ASTM D7624 >20	8.9	5.7	10.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.7	16.0	23.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.0	12.7	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	6.7	7.4	6.5

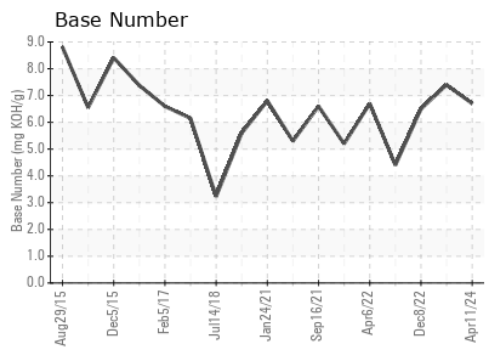
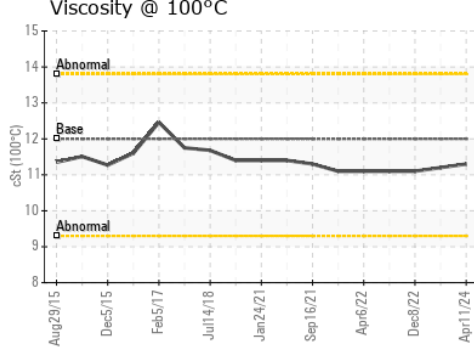
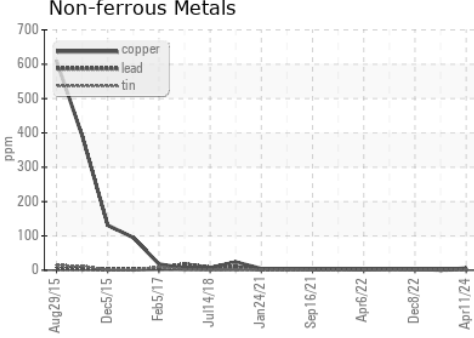
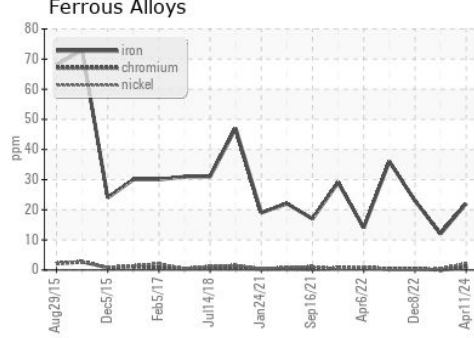
OIL ANALYSIS REPORT



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	11.3	11.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119911
Lab Number : 06156673
Unique Number : 10992096
Test Package : FLEET

Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Sean Felton

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