



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
FLEET
Machine Id
VOLVO 26532 (S/N 4V4NC9EHN991837)
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0099541	PCAMF015741	---
Sample Date		Client Info		28 Dec 2023	08 May 2017	---
Machine Age	mls	Client Info		521124	0	---
Oil Age	mls	Client Info		40000	0	---
Filter Age	mls	Client Info		20000	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	77	35	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>2	1	<1	---
Titanium	ppm	ASTM D5185m		11	0	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>25	6	▲ 20	---
Lead	ppm	ASTM D5185m	>40	<1	1	---
Copper	ppm	ASTM D5185m	>330	4	▲ 363	---
Tin	ppm	ASTM D5185m	>15	<1	6	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

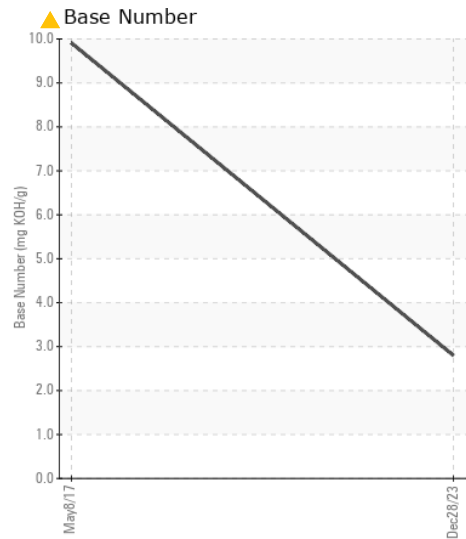
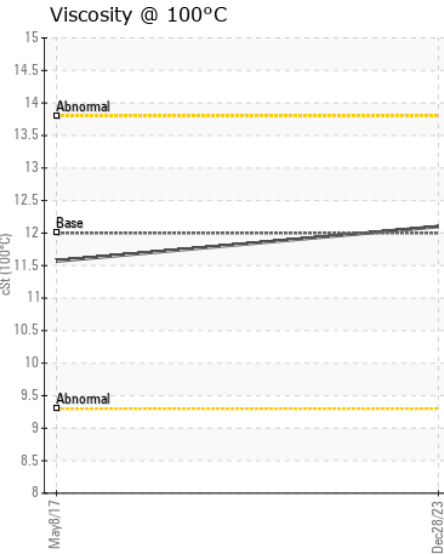
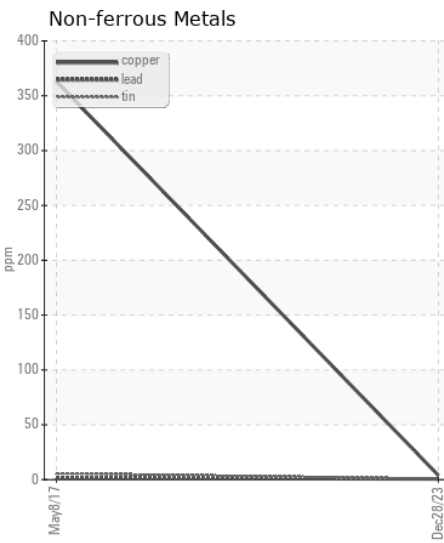
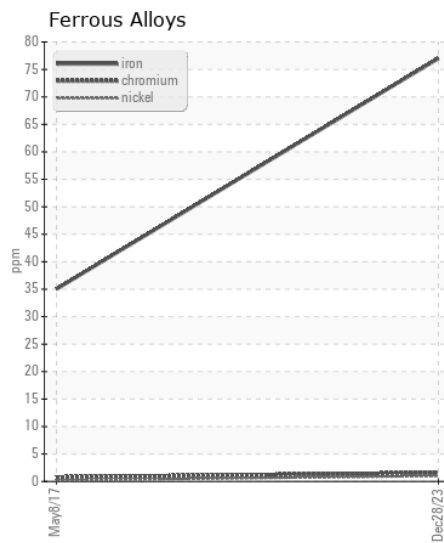
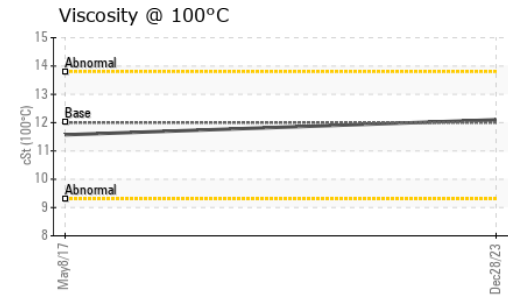
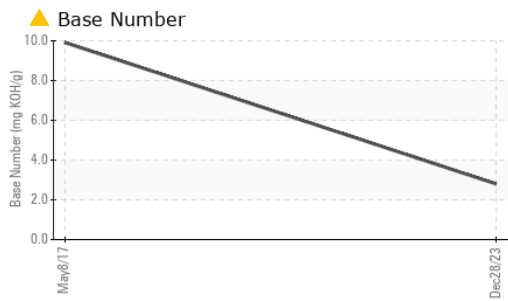
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	▲ 30	---
Potassium	ppm	ASTM D5185m	>20	5	57	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	*ASTM D7844	>3	0.9	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	16.3	8.	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.7	21.	---
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	---

FLUID CONDITION

The low BN value indicates relatively little reserve alkalinity remaining in this oil. The oil is no longer serviceable.

Sodium	ppm	ASTM D5185m		4	5	---
Boron	ppm	ASTM D5185m	2	5	22	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	50	56	36	---
Manganese	ppm	ASTM D5185m	0	1	4	---
Magnesium	ppm	ASTM D5185m	950	872	463	---
Calcium	ppm	ASTM D5185m	1050	1253	1505	---
Phosphorus	ppm	ASTM D5185m	995	1104	718	---
Zinc	ppm	ASTM D5185m	1180	1332	847	---
Sulfur	ppm	ASTM D5185m	2600	2622	2916	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	32.7	19.	---
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 2.8	9.91	---
Visc @ 100°C	cSt	ASTM D445	12.00	12.1	11.57	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0099541 **Recieved** : 10 Jan 2024
Lab Number : 06056405 **Diagnosed** : 11 Jan 2024
Unique Number : 10822354 **Diagnostician** : Angela Borella
Test Package : FLEET

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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)