



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO 26513 (S/N 4V4NC9EH2HN991818)
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		PCA0123184	PCA0101136	PCAMF019885
Sample Date		Client Info		23 Jun 2024	10 Oct 2023	05 Oct 2017
Machine Age	mls	Client Info		0	541060	39831
Oil Age	mls	Client Info		24000	40000	40000
Filter Age	mls	Client Info		24000	20000	20000
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	30	48	31
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		21	0	2
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	3	5	21
Lead	ppm	ASTM D5185m	>40	<1	2	<1
Copper	ppm	ASTM D5185m	>330	7	7	206
Tin	ppm	ASTM D5185m	>15	0	1	8
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

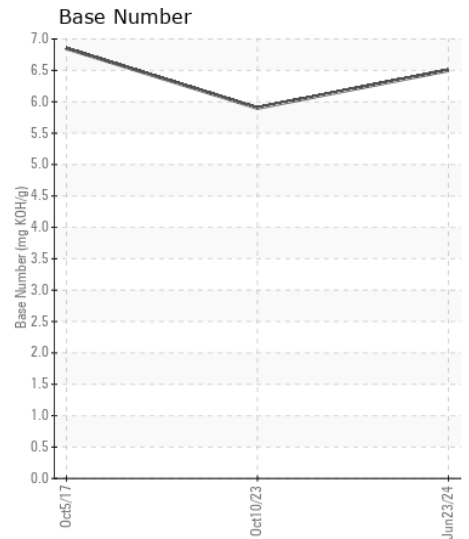
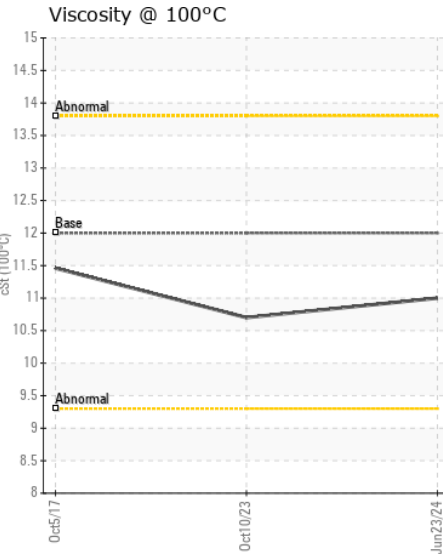
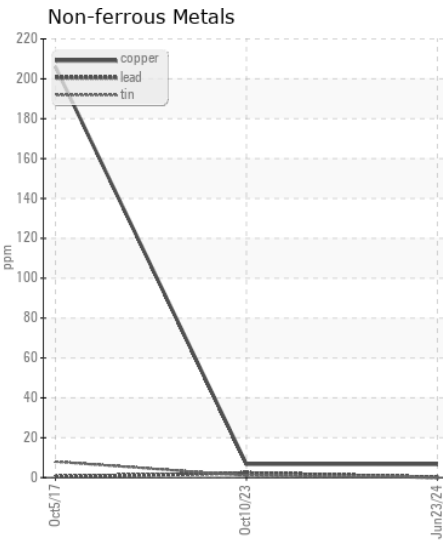
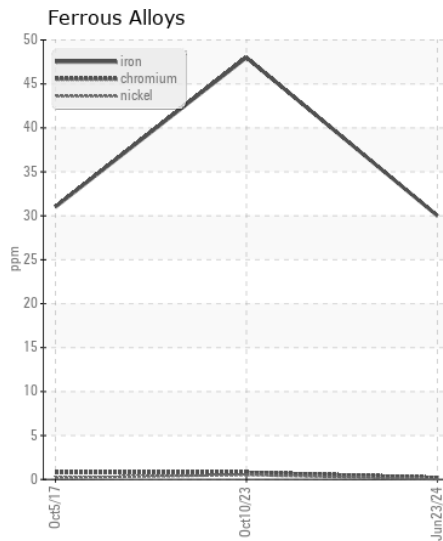
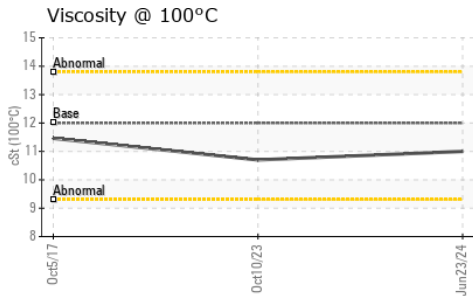
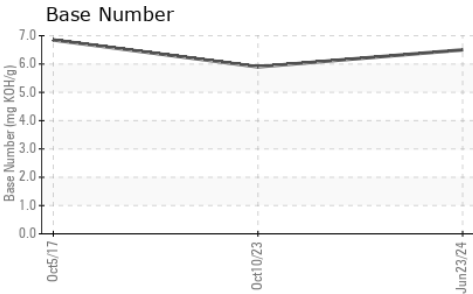
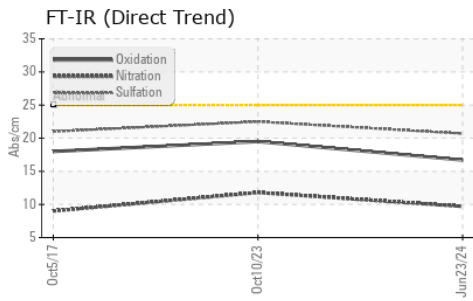
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	7	9
Potassium	ppm	ASTM D5185m	>20	6	6	59
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.7	11.8	9.
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	22.5	21.
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		10	17	8
Boron	ppm	ASTM D5185m	2	10	4	14
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	46	57	43
Manganese	ppm	ASTM D5185m	0	0	1	1
Magnesium	ppm	ASTM D5185m	950	804	898	567
Calcium	ppm	ASTM D5185m	1050	1235	1035	1573
Phosphorus	ppm	ASTM D5185m	995	986	1040	713
Zinc	ppm	ASTM D5185m	1180	1281	1217	943
Sulfur	ppm	ASTM D5185m	2600	3047	2530	2156
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	19.5	18.
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	5.9	6.85
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	10.7	11.46



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0123184 **Received** : 26 Jun 2024
Lab Number : 06220729 **Tested** : 27 Jun 2024
Unique Number : 11098926 **Diagnosed** : 27 Jun 2024 - Wes Davis
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)