



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO 26507

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		PCA0106367	PCA0101131	PCA0088744
Sample Date		Client Info		17 Dec 2023	23 Sep 2023	09 Jul 2023
Machine Age	mls	Client Info		0	660776	0
Oil Age	mls	Client Info		40000	20000	40000
Filter Age	mls	Client Info		40000	20000	40000
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	53	40	28
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>2	1	1	1
Titanium	ppm	ASTM D5185m		2	2	2
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	7	5	6
Lead	ppm	ASTM D5185m	>40	2	<1	2
Copper	ppm	ASTM D5185m	>330	4	3	3
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

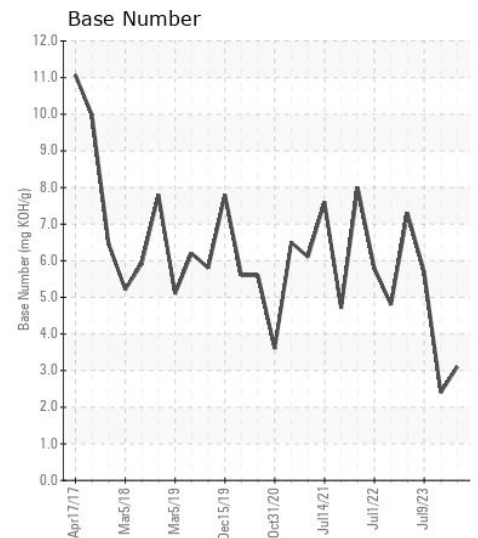
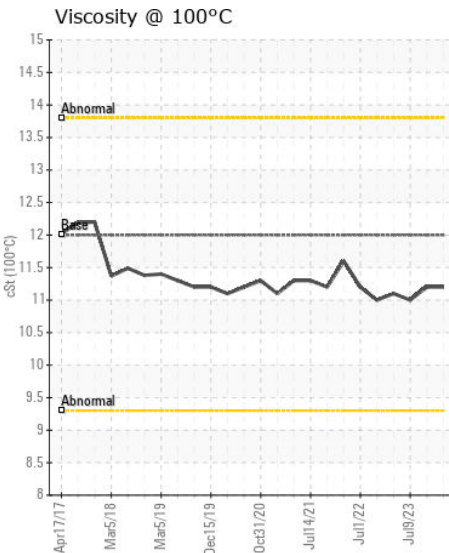
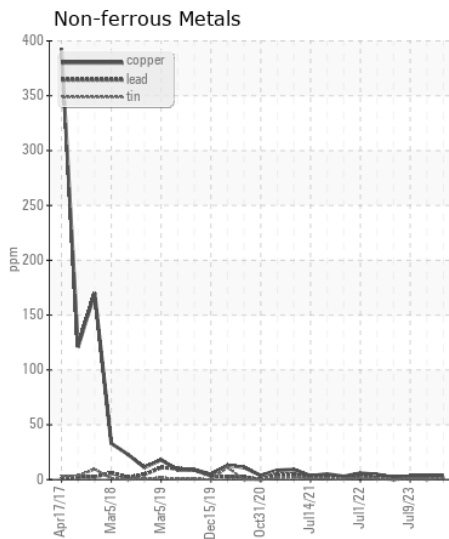
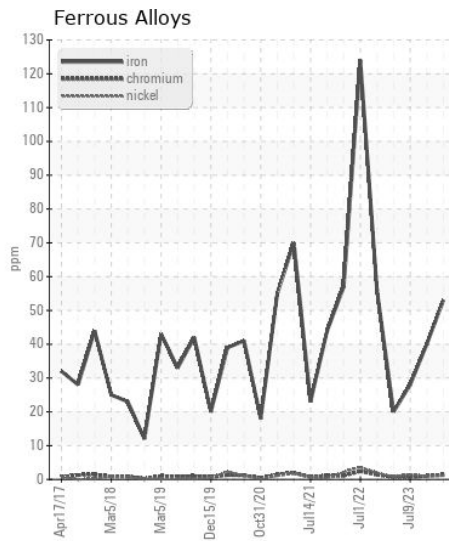
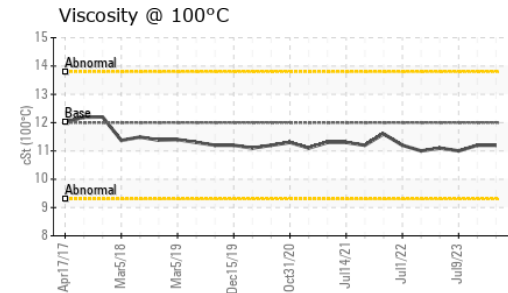
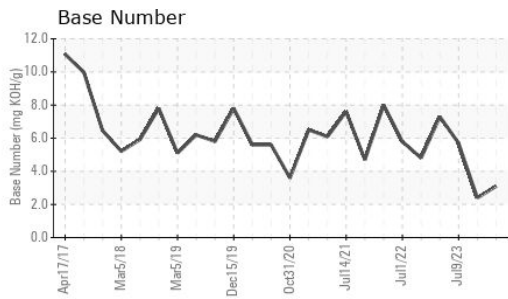
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	6	6
Potassium	ppm	ASTM D5185m	>20	2	0	2
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
Soot %	%	*ASTM D7844	>3	0.8	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	12.6	11.4	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	24.5	23.4
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		24	18	16
Boron	ppm	ASTM D5185m	2	2	<1	<1
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	50	55	56	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	896	919	867
Calcium	ppm	ASTM D5185m	1050	1078	1099	1150
Phosphorus	ppm	ASTM D5185m	995	1064	1032	1001
Zinc	ppm	ASTM D5185m	1180	1278	1262	1225
Sulfur	ppm	ASTM D5185m	2600	2426	2556	2827
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.2	22.4	19.8
Base Number (BN)	mg KOH/g	ASTM D2896		3.1	2.4	5.7
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	11.2	11.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106367 **Recieved** : 10 Jan 2024
Lab Number : 06056408 **Diagnosed** : 11 Jan 2024
Unique Number : 10822357 **Diagnostician** : Angela Borella
Test Package : FLEET

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)

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