



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
FLEET
Machine Id
VOLVO VNR 26597

Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (38 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0099537	PCA0088753	PCA0087237
Sample Date		Client Info		17 Jan 2024	25 Jun 2023	12 Feb 2023
Machine Age	mls	Client Info		651839	0	569374
Oil Age	mls	Client Info		15000	30000	20000
Filter Age	mls	Client Info		15000	30000	20000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Cleaned	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	70	76	36
Chromium	ppm	ASTM D5185m	>20	1	2	<1
Nickel	ppm	ASTM D5185m	>2	1	2	1
Titanium	ppm	ASTM D5185m		3	6	5
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	4	7	4
Lead	ppm	ASTM D5185m	>40	4	4	2
Copper	ppm	ASTM D5185m	>330	6	10	4
Tin	ppm	ASTM D5185m	>15	1	2	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

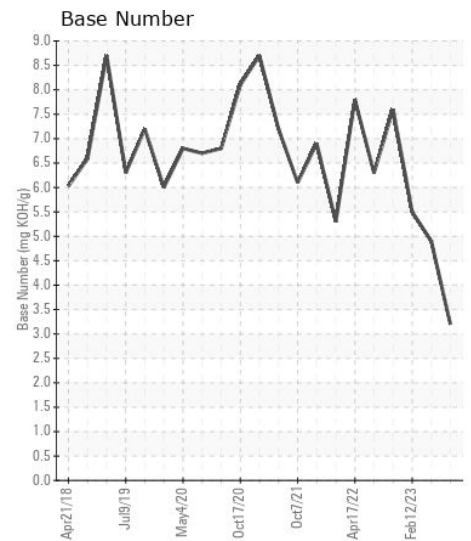
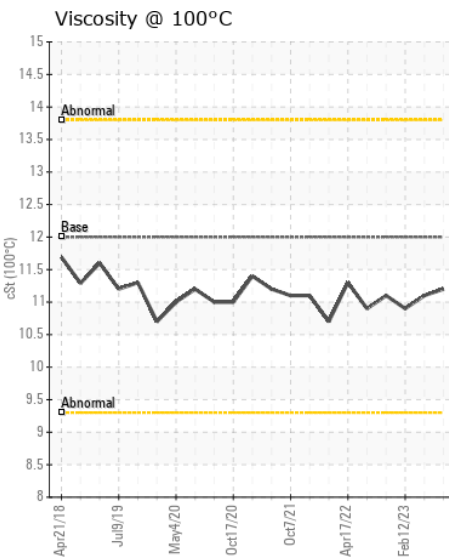
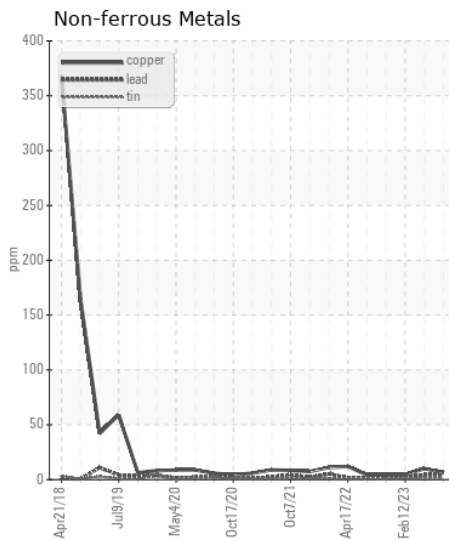
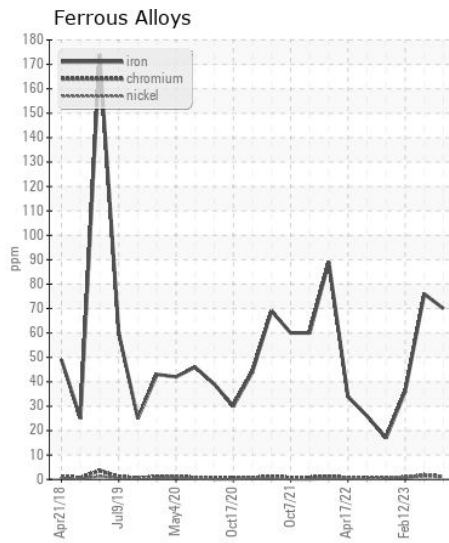
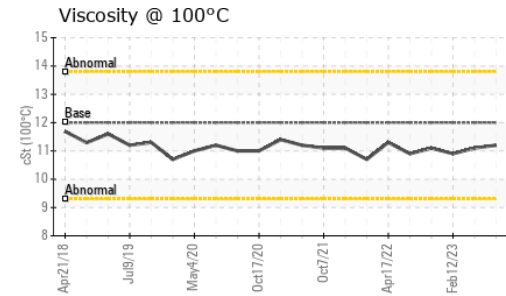
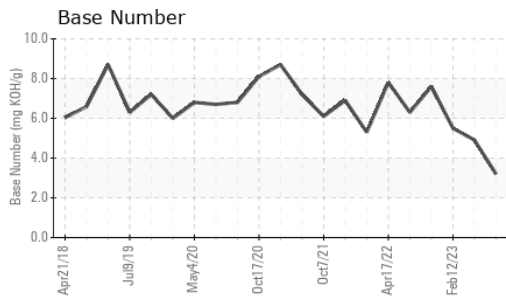
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	9	6
Potassium	ppm	ASTM D5185m	>20	4	4	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	0.9	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	13.6	12.3	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	25.7	22.8
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		15	37	13
Boron	ppm	ASTM D5185m	2	4	<1	2
Barium	ppm	ASTM D5185m	0	0	2	2
Molybdenum	ppm	ASTM D5185m	50	56	72	53
Manganese	ppm	ASTM D5185m	0	1	1	<1
Magnesium	ppm	ASTM D5185m	950	882	1057	828
Calcium	ppm	ASTM D5185m	1050	1065	1434	1145
Phosphorus	ppm	ASTM D5185m	995	1037	1200	933
Zinc	ppm	ASTM D5185m	1180	1262	1522	1164
Sulfur	ppm	ASTM D5185m	2600	2465	3488	2669
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.9	22.1	18.9
Base Number (BN)	mg KOH/g	ASTM D2896		3.2	4.9	5.5
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	11.1	10.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0099537 **Received** : 31 Jan 2024
Lab Number : 06075548 **Diagnosed** : 01 Feb 2024
Unique Number : 10857639 **Diagnostician** : 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)