



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO VNR 62T300 26625 (S/N 17407)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0118390	PCA0092448	PCA0076918
Sample Date		Client Info		07 Feb 2024	02 Jun 2023	02 Jan 2023
Machine Age	mls	Client Info		0	430569	400524
Oil Age	mls	Client Info		0	20000	0
Filter Age	mls	Client Info		0	20000	0
Oil Changed		Client Info		N/A	Not Changed	N/A
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	59	41	▲ 92
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	2	1	1
Titanium	ppm	ASTM D5185m		1	2	4
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	4	5
Lead	ppm	ASTM D5185m	>40	2	<1	2
Copper	ppm	ASTM D5185m	>330	9	6	10
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

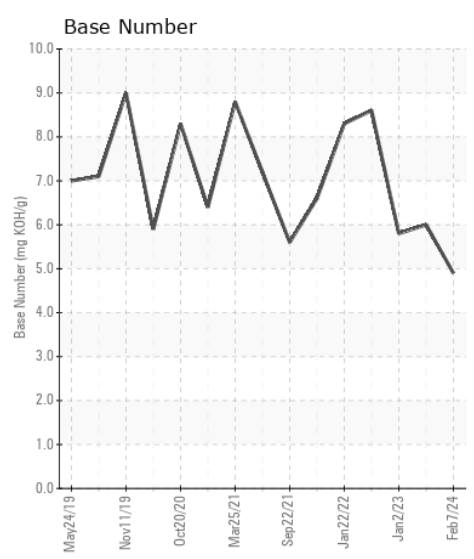
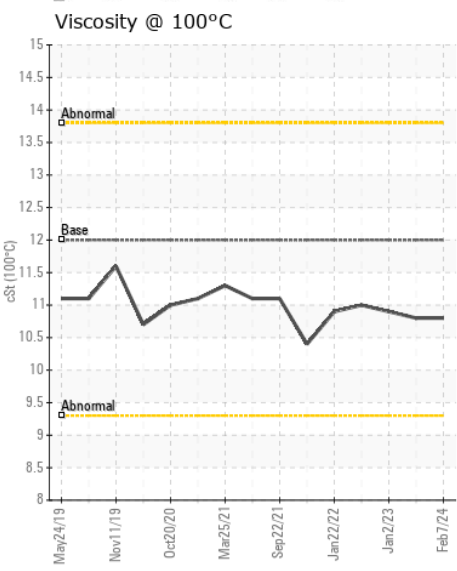
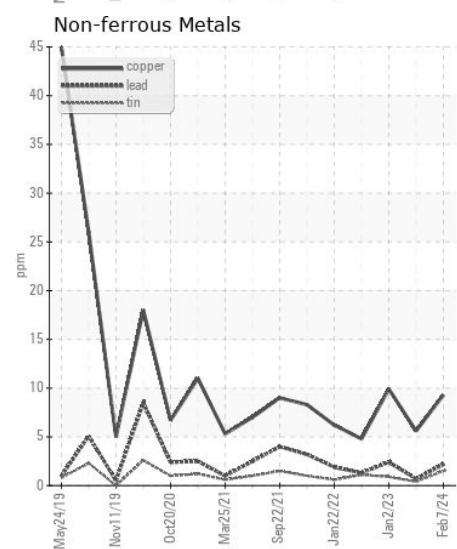
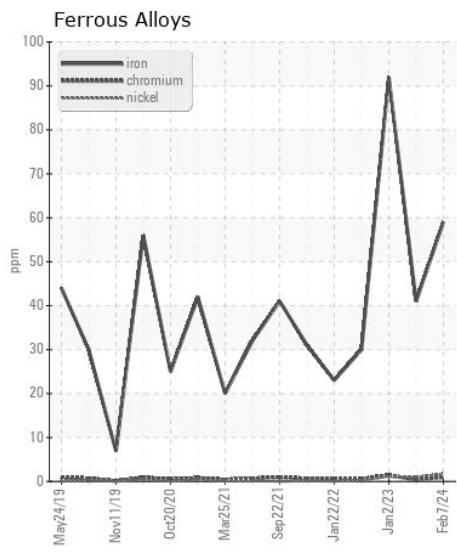
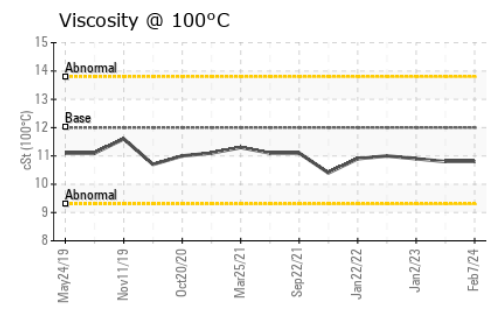
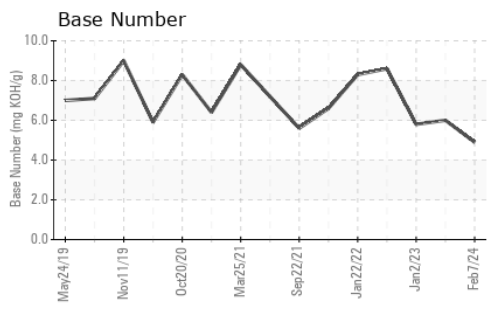
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	4	10
Potassium	ppm	ASTM D5185m	>20	9	2	8
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	0.6	1.2
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.5	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	21.7	23.3
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		18	12	16
Boron	ppm	ASTM D5185m	2	0	0	0
Barium	ppm	ASTM D5185m	0	14	0	0
Molybdenum	ppm	ASTM D5185m	50	60	55	57
Manganese	ppm	ASTM D5185m	0	1	<1	1
Magnesium	ppm	ASTM D5185m	950	865	891	844
Calcium	ppm	ASTM D5185m	1050	1064	1105	1158
Phosphorus	ppm	ASTM D5185m	995	982	935	947
Zinc	ppm	ASTM D5185m	1180	1147	1184	1189
Sulfur	ppm	ASTM D5185m	2600	2899	3189	2242
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	18.6	18.3
Base Number (BN)	mg KOH/g	ASTM D2896		4.9	6.0	5.8
Visc @ 100°C	cSt	ASTM D445	12.00	10.8	10.8	10.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0118390 **Received** : 12 Feb 2024
Lab Number : 06085727 **Tested** : 12 Feb 2024
Unique Number : 10873172 **Diagnosed** : 12 Feb 2024 - Wes Davis
Test Package : FLEET

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Certificate L2367
 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)