



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**CLI TRANSPORT LP - MANASSAS**  
 Machine Id  
**VOLVO 8577 (S/N 4V4NC9EH8NN604104)**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>NL0001889</b>	NL0000565	NL0000514
Sample Date		Client Info		<b>06 Feb 2024</b>	08 Sep 2023	07 Jun 2023
Machine Age	mls	Client Info		<b>346896</b>	323048	281792
Oil Age	mls	Client Info		<b>45000</b>	45000	45000
Filter Age	mls	Client Info		<b>45000</b>	45000	45000
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>46</b>	35	41
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>7</b>	5	4
Lead	ppm	ASTM D5185m	>40	<b>2</b>	3	0
Copper	ppm	ASTM D5185m	>330	<b>11</b>	9	4
Tin	ppm	ASTM D5185m	>15	<b>1</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

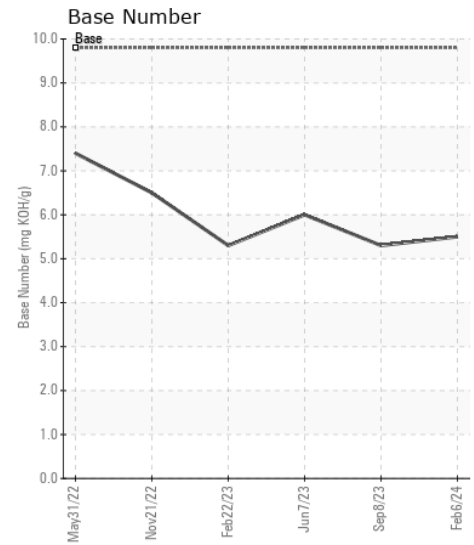
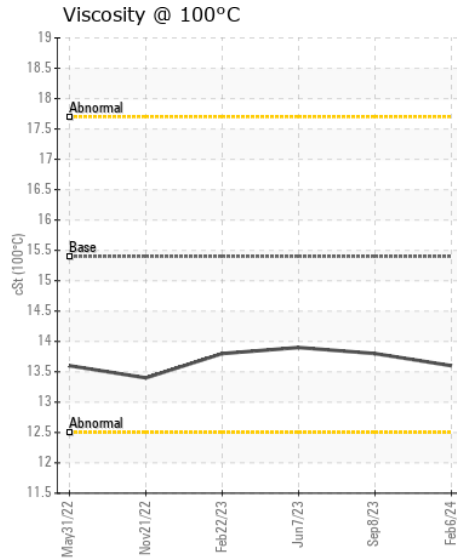
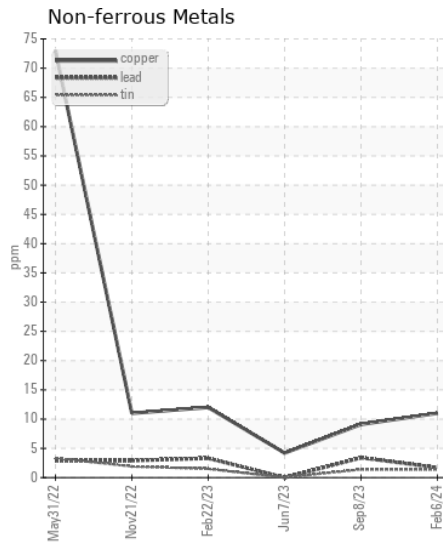
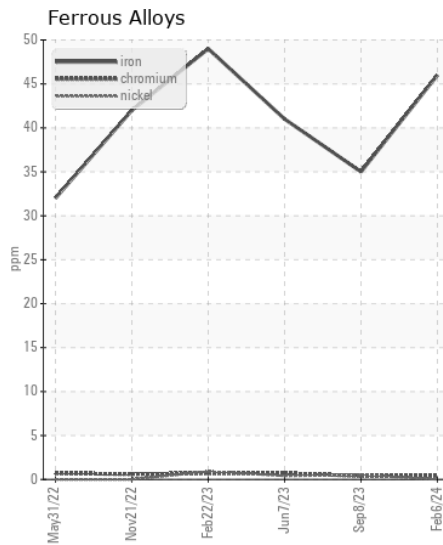
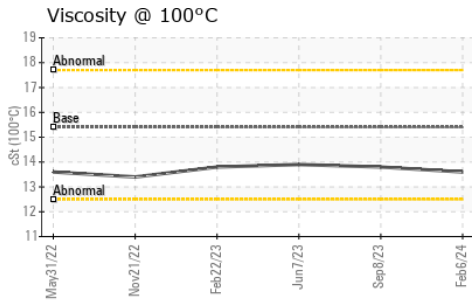
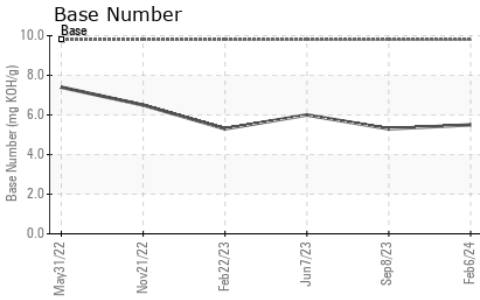
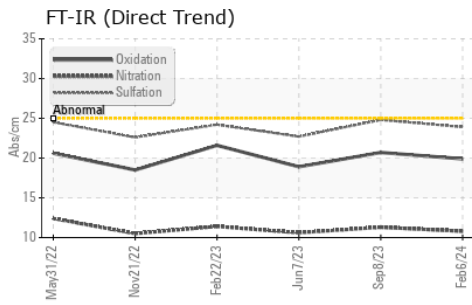
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	8	0
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.8</b>	11.3	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.9</b>	24.8	22.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>3</b>	0	0
Boron	ppm	ASTM D5185m	0	<b>8</b>	2	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	4	0
Molybdenum	ppm	ASTM D5185m	60	<b>67</b>	69	61
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>942</b>	934	935
Calcium	ppm	ASTM D5185m	1070	<b>1169</b>	1177	1207
Phosphorus	ppm	ASTM D5185m	1150	<b>1045</b>	1031	980
Zinc	ppm	ASTM D5185m	1270	<b>1318</b>	1246	1326
Sulfur	ppm	ASTM D5185m	2060	<b>3411</b>	3141	3655
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.9</b>	20.7	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>5.5</b>	5.3	6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.6</b>	13.8	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : NL0001889  
**Lab Number** : 06147111  
**Unique Number** : 10977189  
**Test Package** : FLEET

**Received** : 12 Apr 2024  
**Tested** : 15 Apr 2024  
**Diagnosed** : 15 Apr 2024 - Wes Davis

**FOX & JAMES NATIONALEASE - Manassas**  
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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)