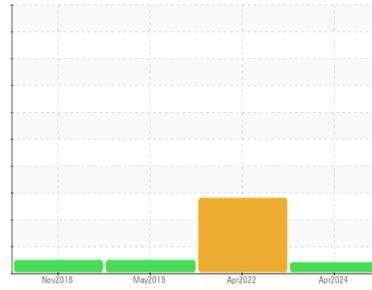




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area

[142229]

Machine Id

VOLVO PENTA WALLACEBURY WTP

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (75 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0919644	WC0668166	WC101325
Sample Date	Client Info		05 Apr 2024	27 Apr 2022	23 May 2019
Machine Age	hrs	Client Info	303	256	182
Oil Age	hrs	Client Info	0	0	6
Oil Changed	Client Info		N/A	Not Changd	Not Changd
Sample Status			ABNORMAL	SEVERE	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>120	1	2	2
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	1
Lead	ppm	ASTM D5185(m)	>40	0	1	<1
Copper	ppm	ASTM D5185(m)	>300	1	5	3
Tin	ppm	ASTM D5185(m)	>10	0	<1	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	250	8	3	2
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	2	<1	<1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	27	15	10
Calcium	ppm	ASTM D5185(m)	3000	2062	1941	2264
Phosphorus	ppm	ASTM D5185(m)	1150	799	830	921
Zinc	ppm	ASTM D5185(m)	1350	898	897	1037
Sulfur	ppm	ASTM D5185(m)	4250	2792	2901	3414
Lithium	ppm	ASTM D5185(m)		<1	0	0

CONTAMINANTS

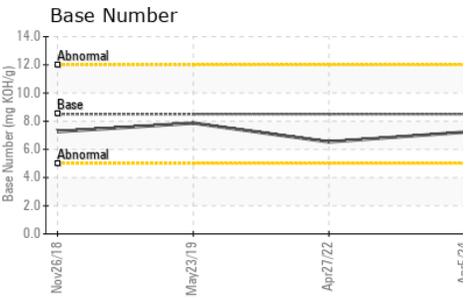
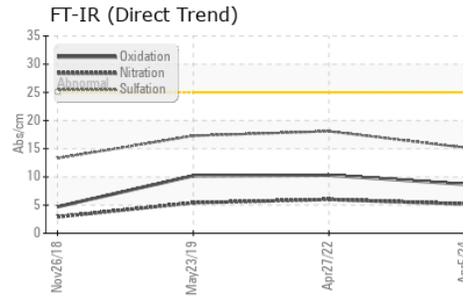
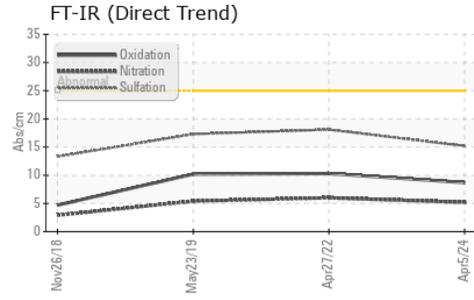
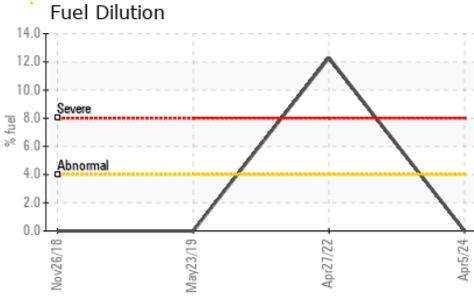
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	1	9	4
Sodium	ppm	ASTM D5185(m)	>158	1	2	1
Potassium	ppm	ASTM D5185(m)	>20	1	0	<1
Fuel	%	ASTM D7593*	>4.0	0.0	▲ 12.3	<1.0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.2	6.0	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.2	18.1	17.3



OIL ANALYSIS REPORT

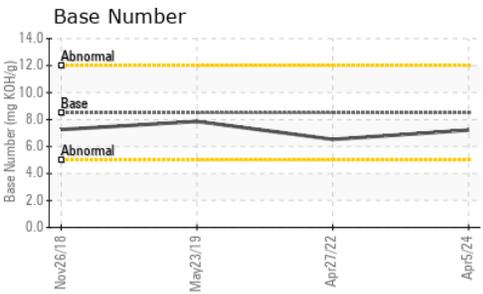
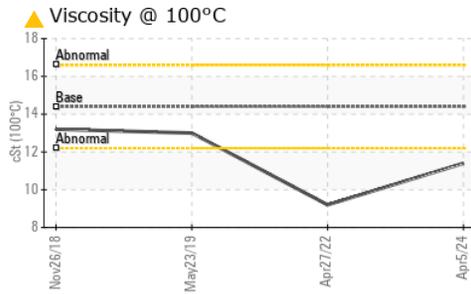
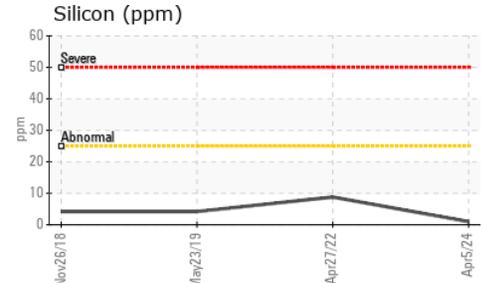
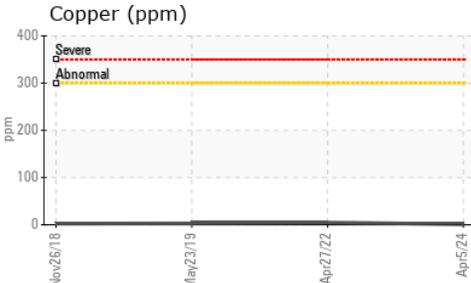
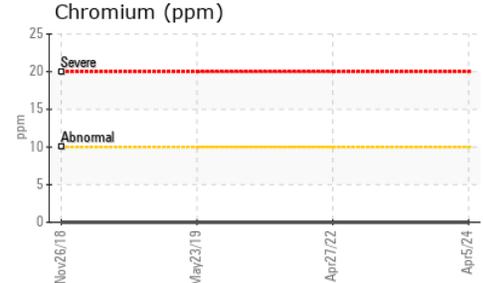
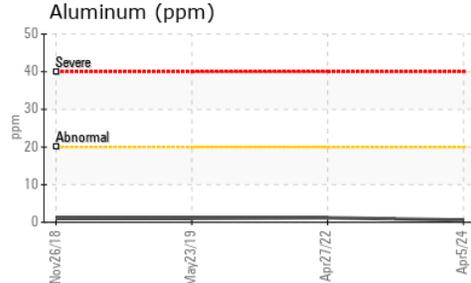
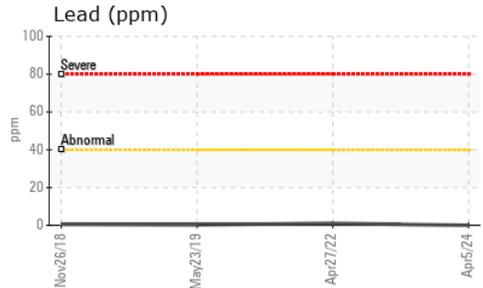
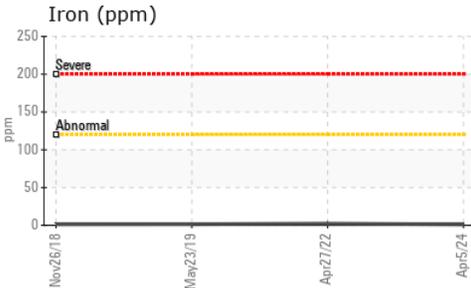


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	8.7	10.3	10.2
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	7.22	6.53	7.86

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 11.4	▲ 9.2	13.0

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0919644 **Received** : 15 Apr 2024
Lab Number : **02628674** **Tested** : 16 Apr 2024
Unique Number : 5761806 **Diagnosed** : 16 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

GENREP LTD
 476 HWY 77, R.R. # 3
 LEAMINGTON, ON
 CA N8H 3V6
 Contact: Debbie Johnston
 djohnston@genrep.com
 T: (519)325-0202
 F: (519)322-0026