



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area  
**[142229]**  
 Machine Id  
**AGNES ST. PS**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0919636</b>	WC0791181	WC0488442
Sample Date		Client Info		<b>05 Apr 2024</b>	18 Apr 2023	27 Apr 2021
Machine Age	hrs	Client Info		<b>140</b>	126	81
Oil Age	hrs	Client Info		<b>0</b>	0	81
Filter Age	hrs	Client Info		<b>0</b>	0	81
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>120	<b>18</b>	16	15
Chromium	ppm	ASTM D5185(m)	>10	<b>3</b>	2	2
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	3	3
Lead	ppm	ASTM D5185(m)	>40	<b>3</b>	3	4
Copper	ppm	ASTM D5185(m)	>300	<b>25</b>	25	23
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

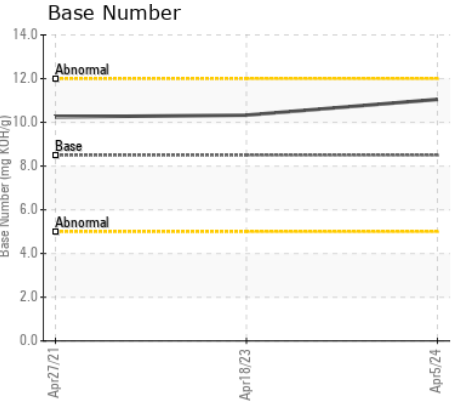
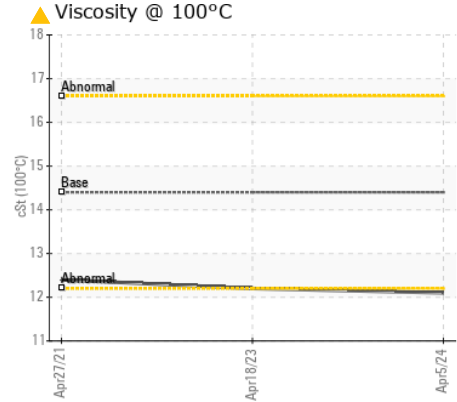
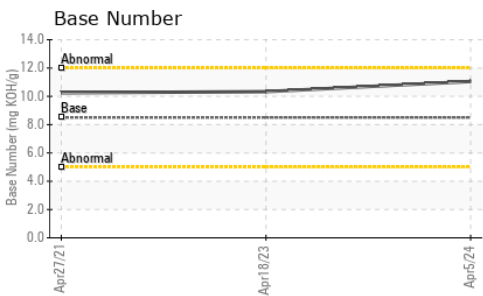
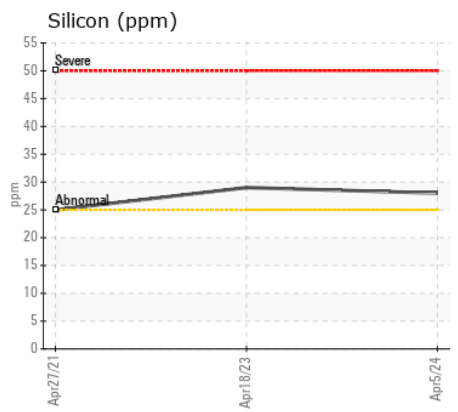
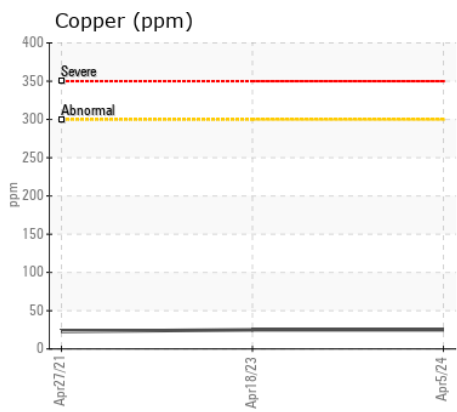
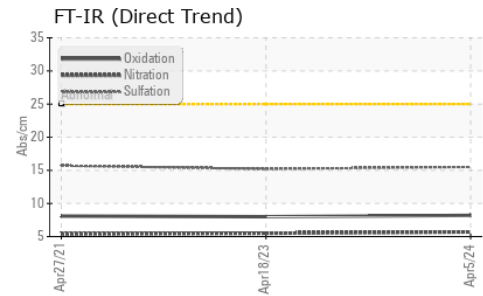
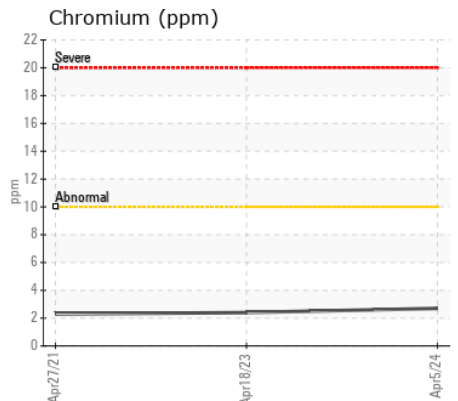
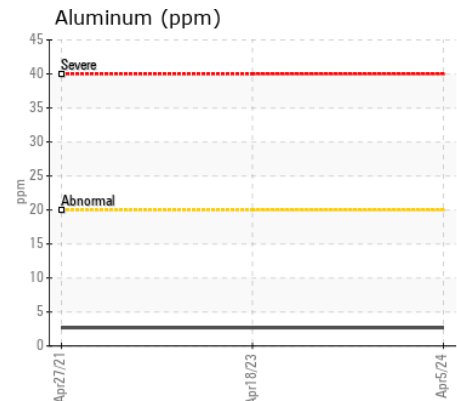
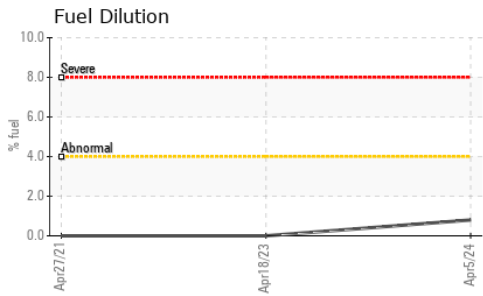
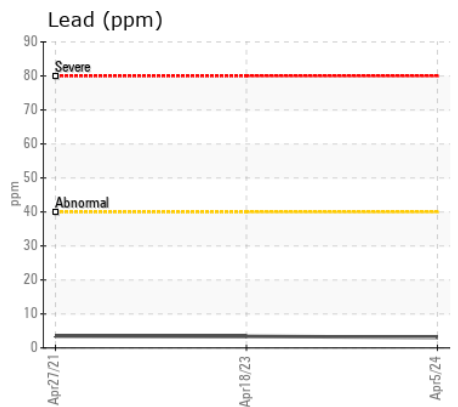
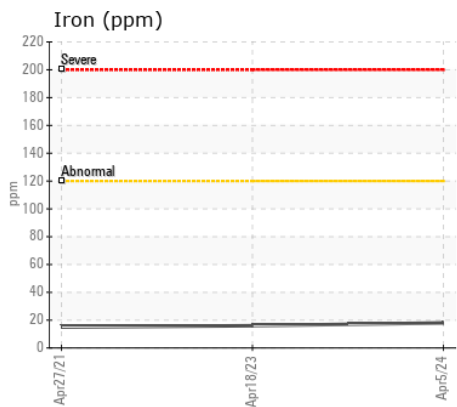
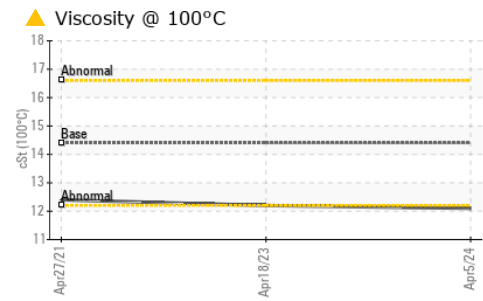
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>28</b>	29	25
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	2
Fuel	%	ASTM D7593*	>4.0	<b>0.8</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.7</b>	5.5	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>15.5</b>	15.2	15.7
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	2	3
Boron	ppm	ASTM D5185(m)	250	<b>13</b>	14	14
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>39</b>	38	37
Manganese	ppm	ASTM D5185(m)		<b>3</b>	3	3
Magnesium	ppm	ASTM D5185(m)	450	<b>1144</b>	1100	1104
Calcium	ppm	ASTM D5185(m)	3000	<b>1285</b>	1311	1251
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1096</b>	1147	1076
Zinc	ppm	ASTM D5185(m)	1350	<b>1268</b>	1261	1297
Sulfur	ppm	ASTM D5185(m)	4250	<b>9690</b>	9768	9776
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>8.2</b>	8.0	8.1
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	<b>11.05</b>	10.33	10.25
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>▲ 12.1</b>	12.2	12.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0919636 **Received** : 15 Apr 2024  
**Lab Number** : 02628677 **Tested** : 17 Apr 2024  
**Unique Number** : 5761809 **Diagnosed** : 17 Apr 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: FUELDILUTION, PercentFuel )

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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.