

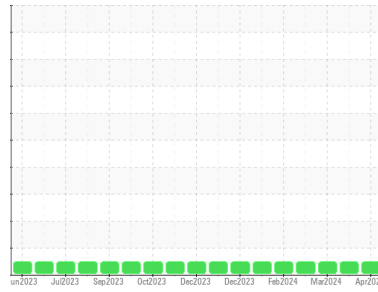


# OIL ANALYSIS REPORT



Area  
**KDAC**  
 Machine Id  
**200300**  
 Component  
**Diesel Engine**  
 Fluid  
**TEST OIL RED 6 (40 LTR)**

### Sample Rating Trend



**NORMAL**



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: New oil - Test Oil Red 6 )

#### Wear

All component wear rates are normal.

#### Contamination

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. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0926308</b>	WC0926307	WC0888921
Sample Date	Client Info		<b>09 Apr 2024</b>	09 Apr 2024	24 Mar 2024
Machine Age	kms	Client Info	<b>310682</b>	310681	301417
Oil Age	kms	Client Info	<b>1</b>	64997	55553
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<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>	0.0	0.0

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>120	<b>6</b>	43	38
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	5	4
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	13	12
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	1	0
Copper	ppm	ASTM D5185(m)	>330	<b>5</b>	46	27
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>122</b>	<1	0
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>47</b>	64	62
Manganese	ppm	ASTM D5185(m)		<b>0</b>	1	0
Magnesium	ppm	ASTM D5185(m)		<b>934</b>	957	965
Calcium	ppm	ASTM D5185(m)		<b>1282</b>	1070	1097
Phosphorus	ppm	ASTM D5185(m)		<b>745</b>	850	873
Zinc	ppm	ASTM D5185(m)		<b>867</b>	1190	1185
Sulfur	ppm	ASTM D5185(m)		<b>1973</b>	2216	2240
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

### CONTAMINANTS

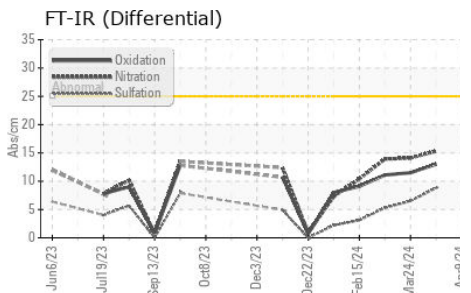
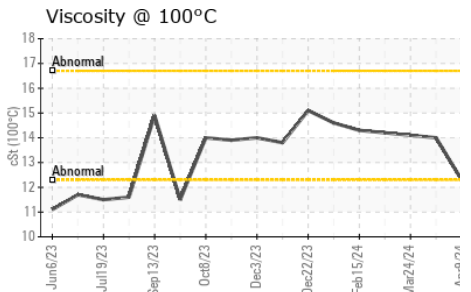
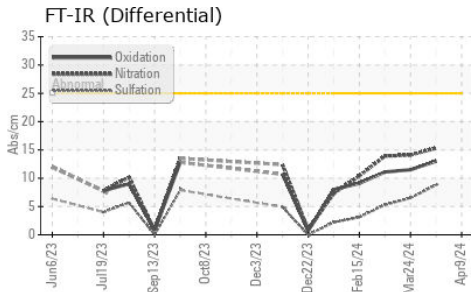
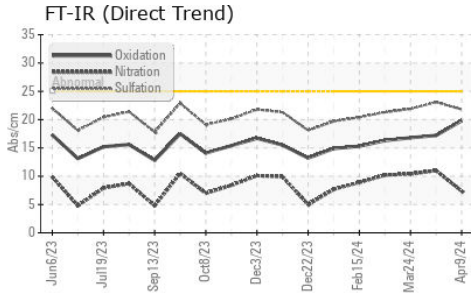
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	5	4
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	7	6

### INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>4	<b>0</b>	0.9	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.4</b>	11.0	10.4
Nitration(Diff)	Abs/cm	ASTM E2412*	< 25	<b>---</b>	15.3	14.1
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>21.8</b>	23.1	21.9
Sulfation(Diff)	Abs/cm	ASTM E2412*		<b>---</b>	8.8	6.5



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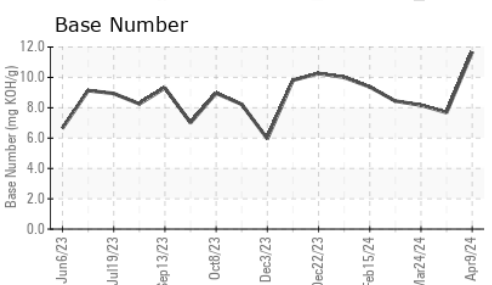
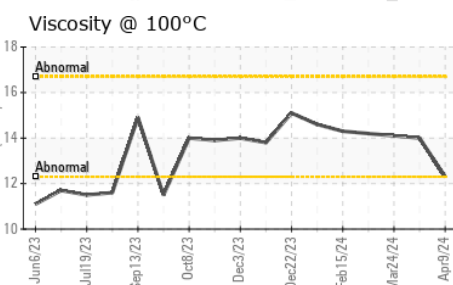
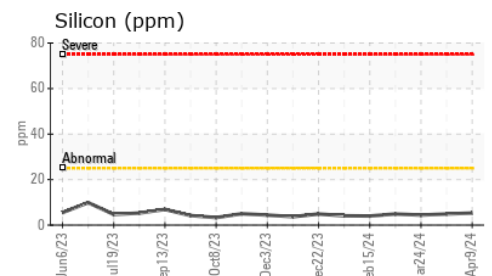
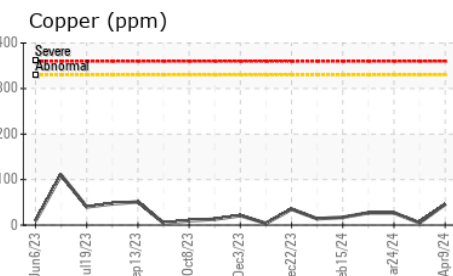
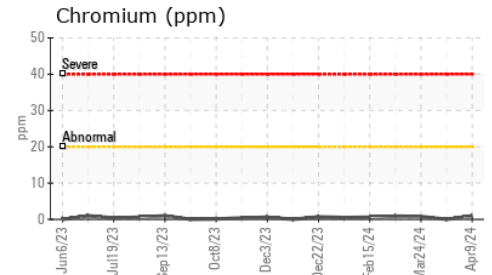
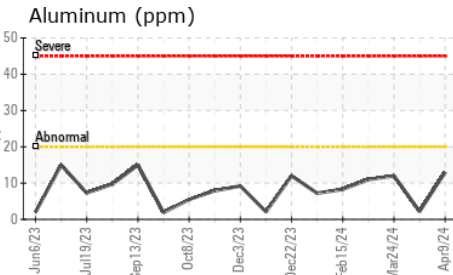
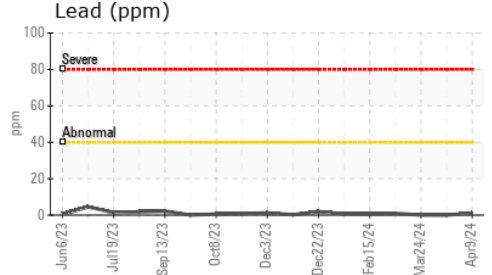
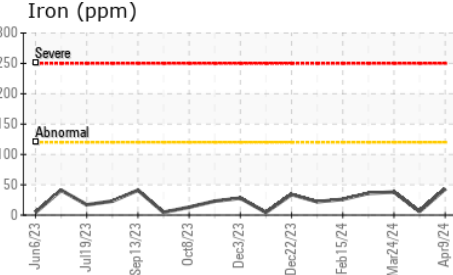


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	19.8	17.2	16.8
Oxidation(Diff)	Abs/cm	ASTM E2412*	< 25	---	13	11.5
Base Number (BN)	mg KOH/g	ASTM D2896*	11.67	7.68	8.17	

VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	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)	12.3	14.0	14.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0926308 **Received** : 10 Apr 2024  
**Lab Number** : 02627784 **Tested** : 10 Apr 2024  
**Unique Number** : 5760916 **Diagnosed** : 11 Apr 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: FT-IR(Diff) )

**WFR Technical Services**  
 5389 Riverside Drive  
 Burlington, ON  
 CA L7L 3Y1  
 Contact: William Ridley  
 wfr.technical.services@gmail.com

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.