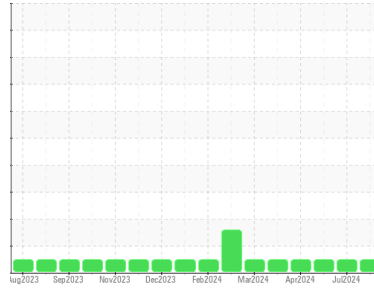




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**KDAC**  
 Machine Id  
**200288**  
 Component  
**Diesel Engine**  
 Fluid  
**TEST OIL RED 6 (40 LTR)**

## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0955702</b>	WC0955701	WC0955696
Sample Date	Client Info		<b>11 Jul 2024</b>	11 Jul 2024	27 Jun 2024
Machine Age	kms	Client Info	<b>388391</b>	388390	379262
Oil Age	kms	Client Info	<b>1</b>	62214	53078
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
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>7</b>	30	26
Chromium	ppm	ASTM D5185(m)	>6	<b>0</b>	1	1
Nickel	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>50	<b>2</b>	6	5
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>50	<b>2</b>	13	12
Tin	ppm	ASTM D5185(m)	>6	<b>0</b>	0	0
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>111</b>	1	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>50</b>	63	61
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>932</b>	1008	998
Calcium	ppm	ASTM D5185(m)		<b>1269</b>	1120	1079
Phosphorus	ppm	ASTM D5185(m)		<b>787</b>	991	964
Zinc	ppm	ASTM D5185(m)		<b>904</b>	1257	1220
Sulfur	ppm	ASTM D5185(m)		<b>2004</b>	2083	2108
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

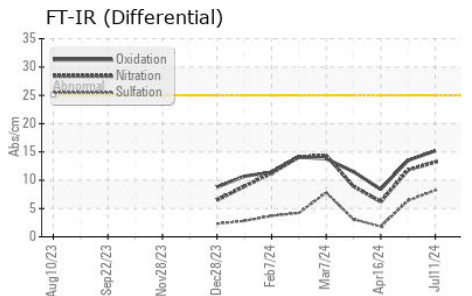
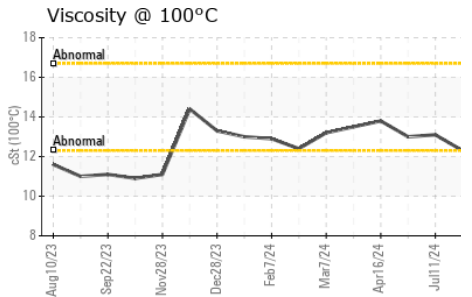
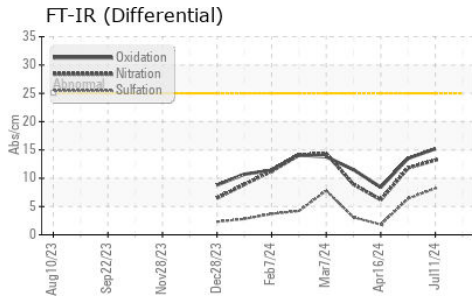
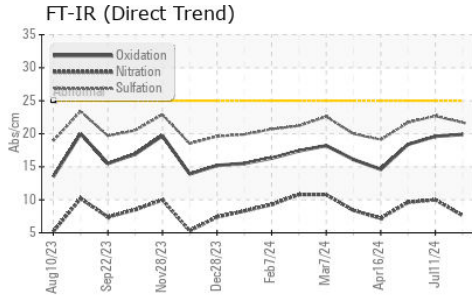
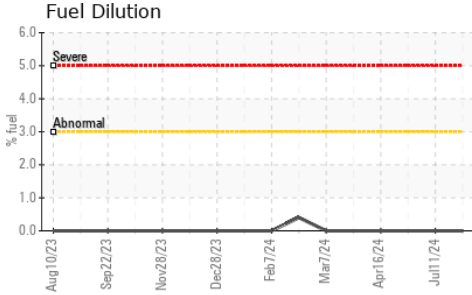
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	<b>4</b>	4	3
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	8	7
Fuel	%	ASTM D7593*	>3.0	<b>0.0</b>	<1.0	<1.0

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	1	0.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.6</b>	10.0	9.6
Nitration(Diff)	Abs/cm	ASTM E2412*	< 25	<b>---</b>	13.2	11.8
Sulfation	Abs.:1mm	ASTM D7415*	>30	<b>21.7</b>	22.7	21.7
Sulfation(Diff)	Abs/cm	ASTM E2412*		<b>---</b>	8.2	6.4



# OIL ANALYSIS REPORT

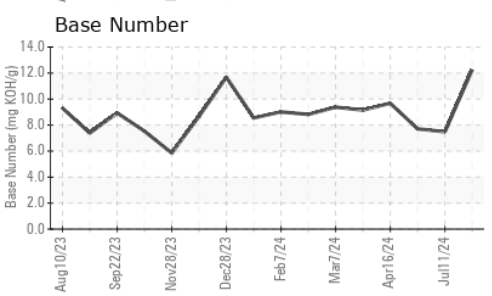
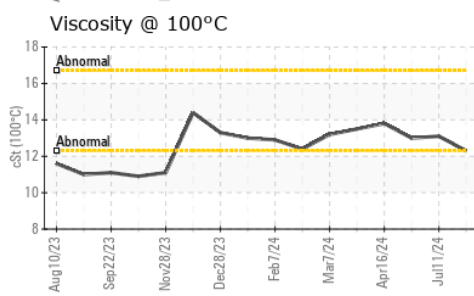
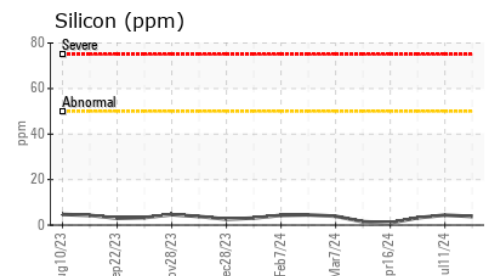
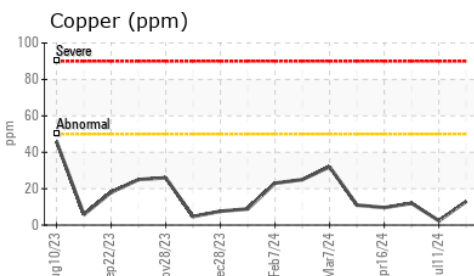
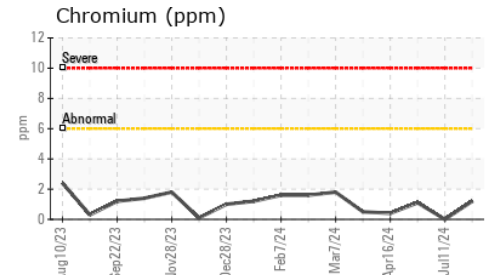
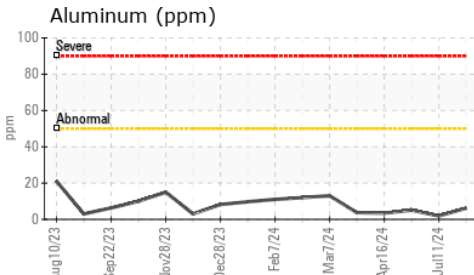
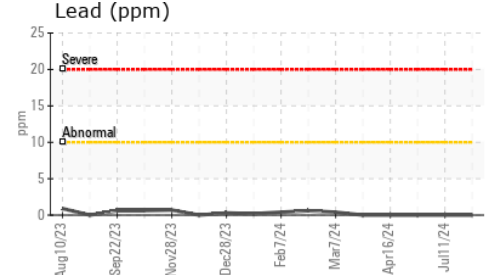
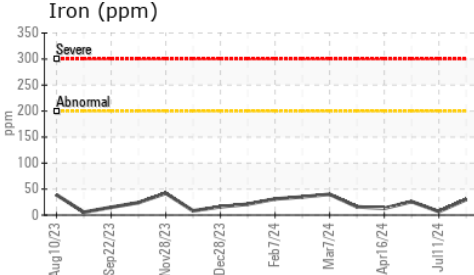


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	19.9	19.6	18.4
Oxidation(Diff)	Abs/cm	ASTM E2412*	< 25	---	15.2	13.5
Base Number (BN)	mg KOH/g	ASTM D2896*	12.25	7.48	7.71	

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	13.1	13.0

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0955702  
**Lab Number** : 02647995  
**Unique Number** : 5813547  
**Test Package** : MOB 2 ( Additional Tests: FT-IR(Diff), FUELDILUTION, PercentFuel )

**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.