



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**CRT EXPRESS PORT (S/N 12310)**  
 Component  
**Port Main Engine**  
 Fluid  
**SHELL GADINIA 30 (200 LTR)**

## RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0722077</b>	WC0722089	WC0722081
Sample Date		Client Info		<b>23 Jul 2023</b>	22 Apr 2023	23 Sep 2022
Machine Age	hrs	Client Info		<b>0</b>	41570	41010
Oil Age	hrs	Client Info		<b>0</b>	860	100
Filter Age	hrs	Client Info		<b>0</b>	860	100
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Chngd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Chngd
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	<b>3</b>	7	3
Chromium	ppm	ASTM D5185(m)	>8	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>1</b>	1	<1
Lead	ppm	ASTM D5185(m)	>18	<b>2</b>	3	2
Copper	ppm	ASTM D5185(m)	>80	<b>18</b>	74	18
Tin	ppm	ASTM D5185(m)	>14	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

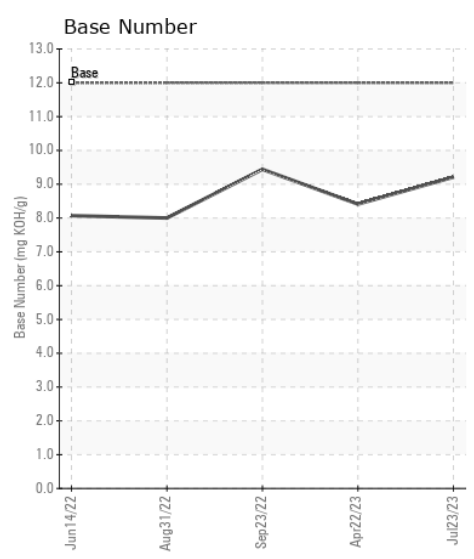
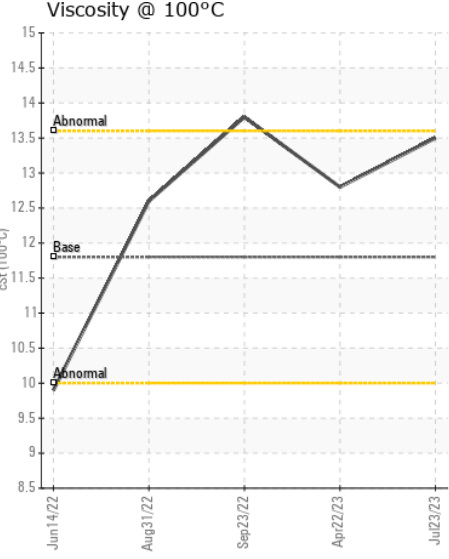
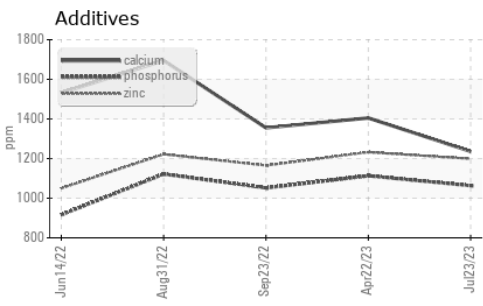
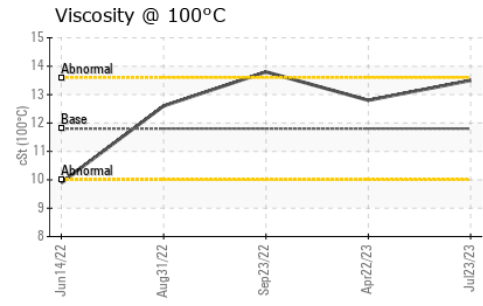
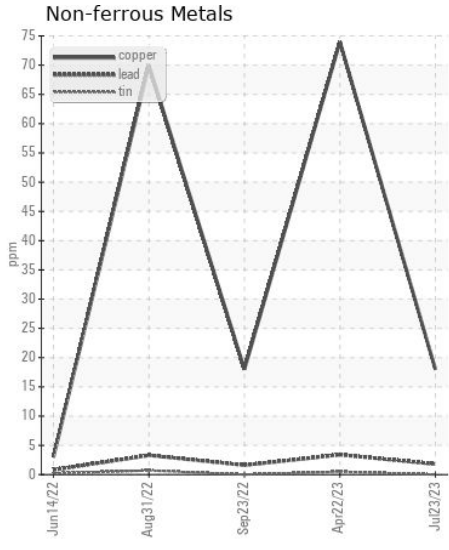
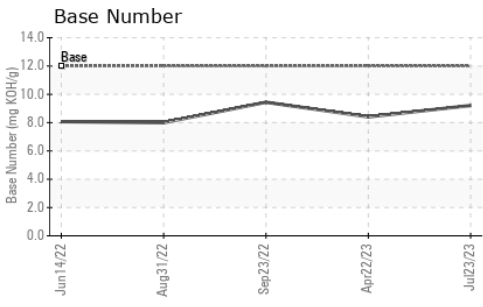
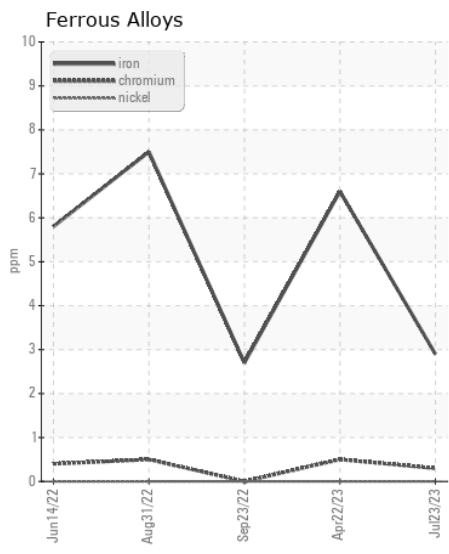
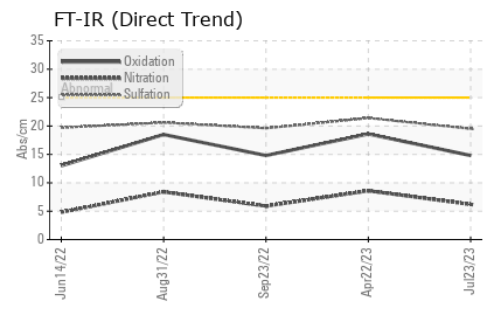
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	5	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Fuel		WC Method	>4.0	<b>&lt;1.0</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>6.2</b>	8.6	5.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.5</b>	21.4	19.6
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. 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 D5185(m)	>75	<b>2</b>	3	2
Boron	ppm	ASTM D5185(m)		<b>20</b>	24	30
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>60</b>	63	59
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>897</b>	845	787
Calcium	ppm	ASTM D5185(m)	3800	<b>1236</b>	1405	1355
Phosphorus	ppm	ASTM D5185(m)		<b>1063</b>	1113	1052
Zinc	ppm	ASTM D5185(m)		<b>1199</b>	1232	1165
Sulfur	ppm	ASTM D5185(m)		<b>2802</b>	2765	2904
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.8</b>	18.6	14.8
Base Number (BN)	mg KOH/g	ASTM D2896*	12	<b>9.21</b>	8.41	9.44
Visc @ 100°C	cSt	ASTM D7279(m)	11.8	<b>13.5</b>	12.8	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0722077  
**Lab Number** : 02571619  
**Unique Number** : 5616670  
**Test Package** : MAR 2  
**Received** : 24 Jul 2023  
**Tested** : 24 Jul 2023  
**Diagnosed** : 24 Jul 2023 - Kevin Marson

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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.