

WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

QC Engine

QC230725MOB2

Test	UOM	Method	Limit/Abn	Current	History1	History2
•		Client Info		WC0925439		WC092543
					'	09 Apr 202
					-	0
						0
•	hrs					0
						N/A
		Client Info				N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMA
Iron	ppm	ASTM D5185(m)	>100	20	20	20
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		3	3	3
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	4	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	9	9	9
Tin	ppm	. ,	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	nnm	ASTM D5185(m)	>25	6	6	6
		` '				<u> 17</u>
		1 /				<u> </u>
						▲ 0.322
						<u> </u>
		ASTM D7922*		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.3	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	10.2	10.2	10.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	20.5	20.4
Emulsified Water	scalar	Visual*	>0.2	NEG	<u> </u>	NEG
Sodium	nom	ASTM D5185(m)	>216	77	77	80
_		. ,				39
		()				<1
						48
-						<1
			450			625
						1492
	ppm	. ,		852	863	859
Phosphorus						
•		. ,		1009	1026	1022
Zinc	ppm	ASTM D5185(m)	1350	1009 2526	1026 2614	1022 2637
•		. ,	1350 4250	1009 2526 16.4	1026 2614 16.5	1022 2637 16.6
Zinc Sulfur	ppm	ASTM D5185(m) ASTM D5185(m)	1350 4250 >25	2526	2614	2637
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Silicon Potassium Fuel Water ppm Water Glycol Soot % Nitration Sulfation Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm Silicon ppm Vanadium ppm Fuel % Water % ppm Water ppm Glycol % Soot % % Nitration Abs/cm Sulfation Abs/cm	Sample Number Sample Date Client Info Machine Age Oil Age hrs Client Info Oil Age hrs Client Info Client Info Oil Changed Filter Age Oil Changed Filter Changed Sample Status Iron Chromium ppm ASTM D5185(m) Chromium ppm ASTM D5185(m) Titanium ppm ASTM D5185(m) Titanium ppm ASTM D5185(m) Aluminum ppm ASTM D5185(m) Lead ppm ASTM D5185(m) Copper ppm ASTM D5185(m) Vanadium Silicon ppm ASTM D5185(m) Vanadium Silicon ppm ASTM D5185(m) Potassium ppm ASTM D5185(m) Fuel % ASTM D7922* Soot % ASTM D7922* Soot % ASTM D7922* Soot % Sodium ppm ASTM D5185(m) Boron ppm ASTM D5185(m) Boron ppm ASTM D5185(m)	Sample Number Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Cilent Info Oil Age hrs Client Info Filter Age hrs Client Info Client Info Filter Age Oil Changed Client Info Filter Changed Sample Status Iron Chromium ppm ASTM D5185(m) Chromium ppm ASTM D5185(m) Silver ASTM D5185(m) Silver Potassium ppm ASTM D5185(m) Silver ASTM D7593* Solver ASTM D7593* Solver ASTM D7593* Solver ASTM D7593* Solver ASTM D7694* Solver Solver Solver Solver Solver Solver Abs/.fmm ASTM D7444* Solver Solver Solver Solver Solver ASTM D7624* Solver Solve	Sample Number Client Info WC0925439 Sample Date Client Info 11 Apr 2024 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Filter Age hrs Client Info N/A Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status ABNORMAL Iron ppm ASTM D5185(m) >100 20 Chromium ppm ASTM D5185(m) >20 <1	Sample Number Client Info WC0925439 WC0925438 Sample Date Client Info 11 Apr 2024 10 Apr 2024 Machine Age hrs Client Info 0 0 Oil Age hrs Client Info 0 0 Filter Age hrs Client Info N/A N/A Filter Changed Client Info N/A N/A Sample Status ABNORMAL ABNORMAL ABNORMAL Iron ppm ASTM D5185(m) >100 20 20 Chromium ppm ASTM D5185(m) >20 <1

<u> 11.3</u>

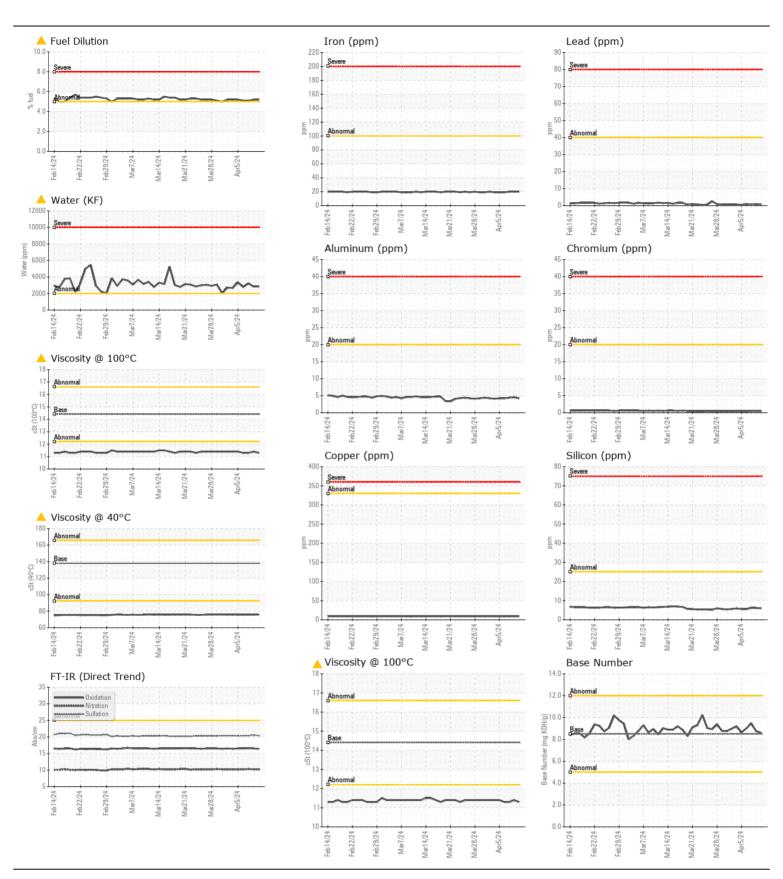
140

<u>11.4</u>

142

Viscosity Index (VI) Scale ASTM D2270* 102

140





CALA ISO 17025:2017 Accredited

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WearCheck Quality Control Sample Results : WC0925439 **Lab Number**

Received : 02628076 **Tested** Unique Number : 5761208 Diagnosed

: 11 Apr 2024 : 12 Apr 2024 Test Package : MOB 2 (Additional Tests: Glycol, KF, KV40, PercentFuel, VI)

: 12 Apr 2024 - Kevin Marson

Burlington, ON Contact: Dorian Anderson

> dorian.anderson@wearcheck.com T: (289)291-4652 F: (905)569-8605

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.

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