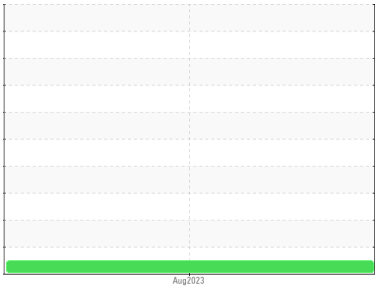
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
SHARP BUS LINES
Machine Id
INTERNATIONAL 1230
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0081330**	---	---
Sample Date		Client Info		**15 Aug 2023**	---	---
Machine Age	kms	Client Info		**252721**	---	---
Oil Age	kms	Client Info		**5650**	---	---
Oil Changed		Client Info		**Changed**	---	---
Sample Status				**NORMAL**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	**<1.0**	---	---
Glycol		WC Method		**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	**52**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**2**	---	---
Nickel	ppm	ASTM D5185(m)	>4	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)	>3	**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**11**	---	---
Lead	ppm	ASTM D5185(m)	>40	**4**	---	---
Copper	ppm	ASTM D5185(m)	>330	**2**	---	---
Tin	ppm	ASTM D5185(m)	>15	**1**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**12**	---	---
Barium	ppm	ASTM D5185(m)	10	**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	100	**64**	---	---
Manganese	ppm	ASTM D5185(m)		**<1**	---	---
Magnesium	ppm	ASTM D5185(m)	450	**887**	---	---
Calcium	ppm	ASTM D5185(m)	3000	**1024**	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	**899**	---	---
Zinc	ppm	ASTM D5185(m)	1350	**1087**	---	---
Sulfur	ppm	ASTM D5185(m)	4250	**2318**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**7**	---	---
Sodium	ppm	ASTM D5185(m)	>158	**10**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**20**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	**1.8**	---	---
Nitration	Abs/cm	ASTM D7624*	>20	**9.4**	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.9**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**16.3**	---	---

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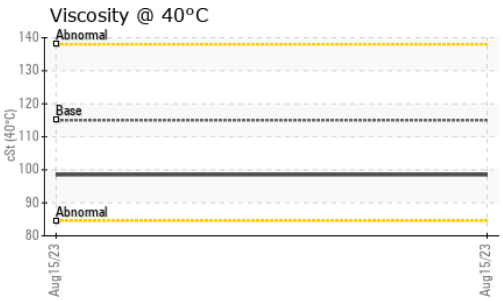
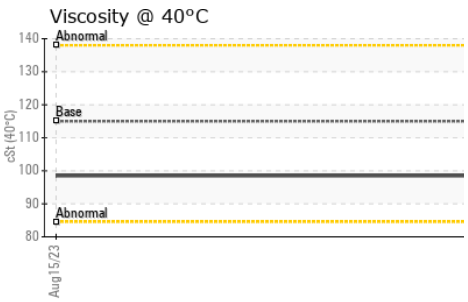
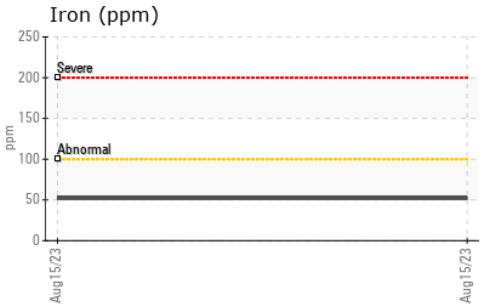


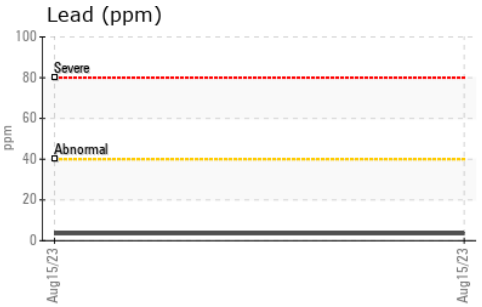


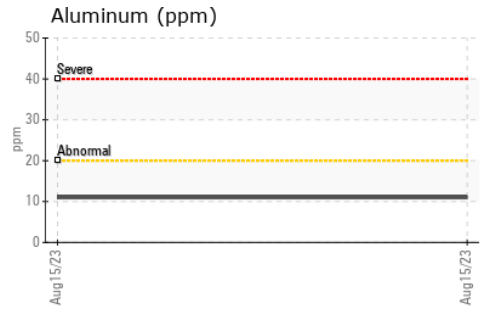
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

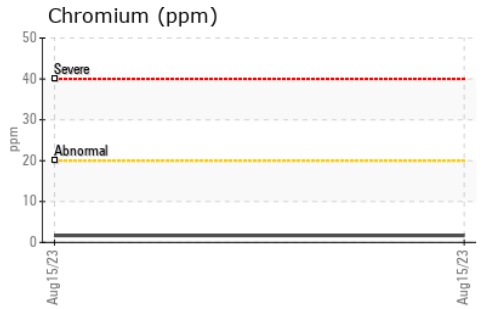
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	115	**98.5**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	**13.8**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	**141**	---	---

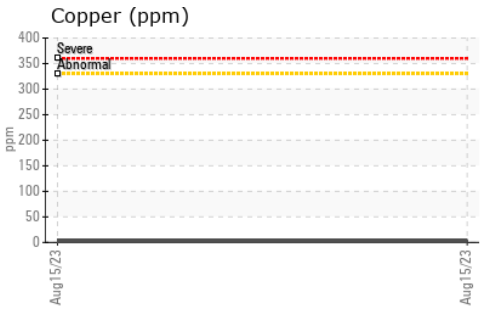
GRAPHS

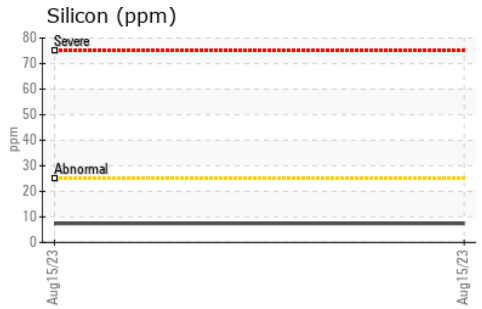


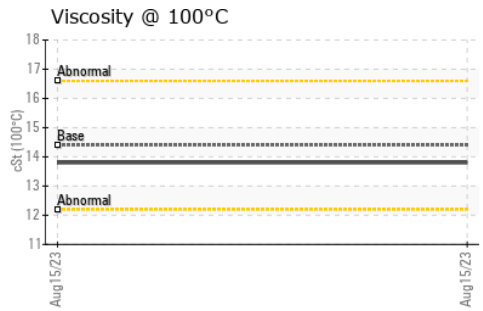


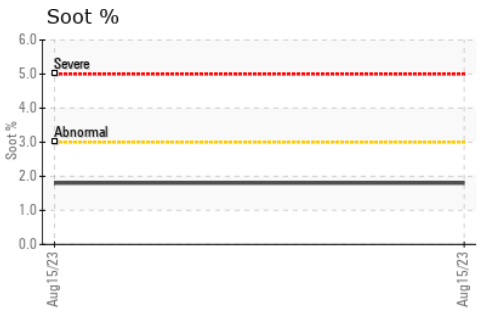












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081330 **Received** : 30 Oct 2023
Lab Number : 02592806 **Diagnosed** : 30 Oct 2023
Unique Number : 5669885 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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