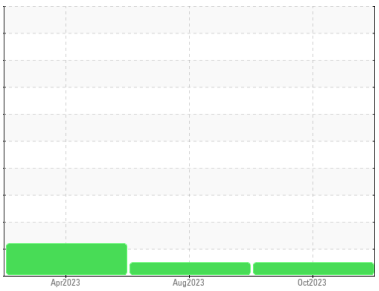
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
9771
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
Metal levels are typical for a new component breaking in.

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		**WC0853498**	WC0853316	WC0796374
Sample Date		Client Info		**21 Oct 2023**	28 Aug 2023	29 Apr 2023
Machine Age	kms	Client Info		**40858**	37496	21656
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**NORMAL**	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	0.8	▲ 3.1
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**65**	7	108
Chromium	ppm	ASTM D5185(m)	>20	**2**	0	3
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**22**	2	12
Lead	ppm	ASTM D5185(m)	>40	**7**	0	6
Copper	ppm	ASTM D5185(m)	>330	**27**	<1	4
Tin	ppm	ASTM D5185(m)	>15	**4**	0	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

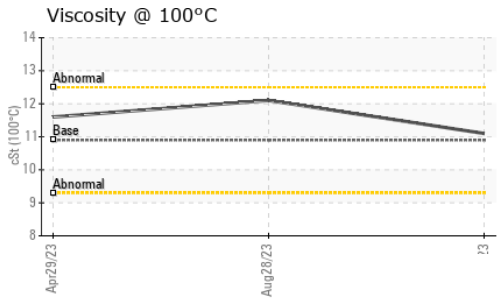
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**30**	110	30
Barium	ppm	ASTM D5185(m)	10	**5**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**59**	19	16
Manganese	ppm	ASTM D5185(m)		**5**	<1	1
Magnesium	ppm	ASTM D5185(m)	450	**451**	659	759
Calcium	ppm	ASTM D5185(m)	3000	**1625**	1346	1507
Phosphorus	ppm	ASTM D5185(m)	1150	**917**	727	792
Zinc	ppm	ASTM D5185(m)	1350	**1115**	781	822
Sulfur	ppm	ASTM D5185(m)	4250	**2293**	2478	2524
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**36**	6	8
Sodium	ppm	ASTM D5185(m)		**4**	2	5
Potassium	ppm	ASTM D5185(m)	>20	**74**	3	10

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.2**	0	0.9
Nitration	Abs/cm	ASTM D7624*	>20	**10.2**	6.4	14.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	**24.7**	19.5	29.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**23.0**	12.3	26.1

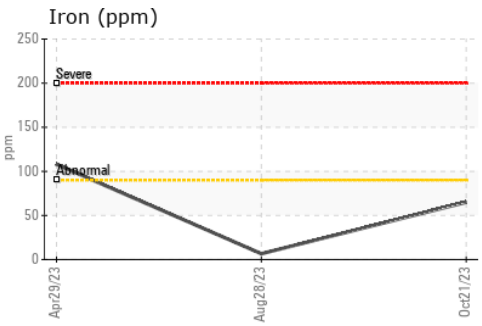
OIL ANALYSIS REPORT

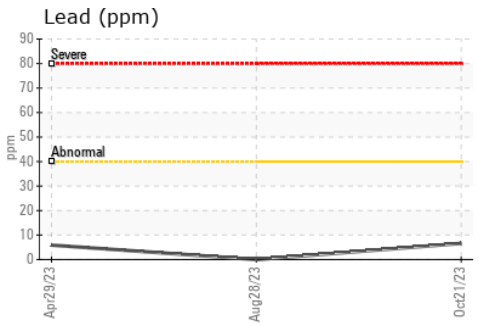


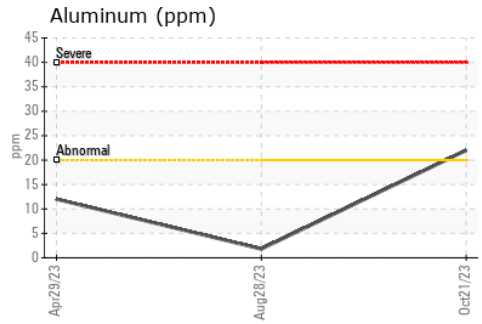
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

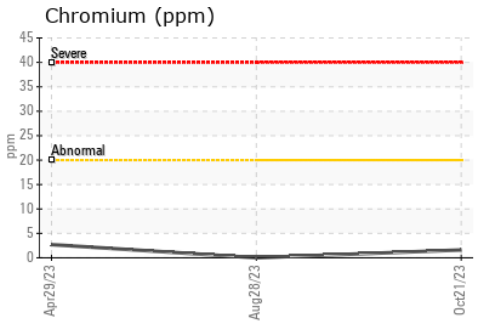
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.1**	12.1	▲ 11.6

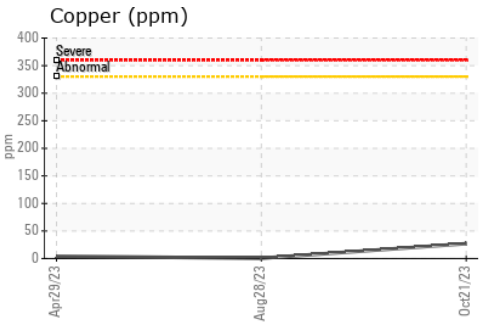
GRAPHS

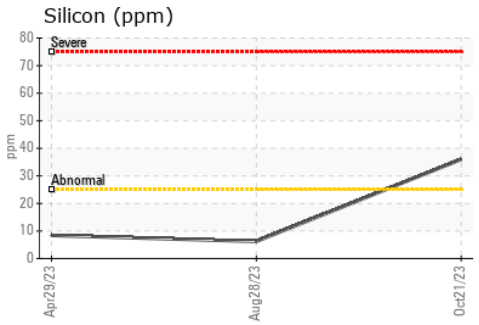


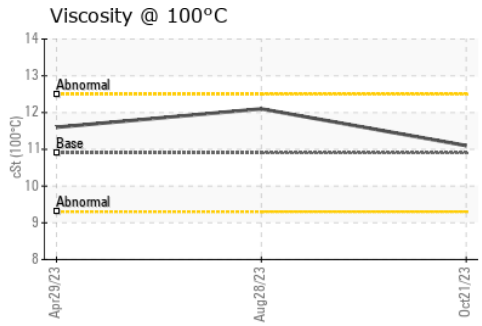


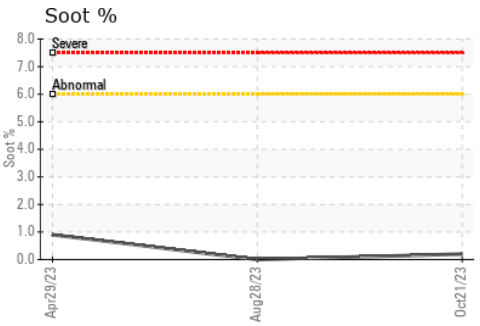












ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0853498	**Received**	: 25 Oct 2023
Lab Number	: 02591616	**Diagnosed**	: 25 Oct 2023
Unique Number	: 5668695	**Diagnostician**	: Wes Davis
Test Package	: MOB 1		

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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