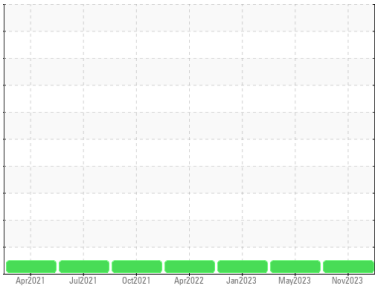
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
4192
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- 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		**WC0853111**	WC0796614	WC0702929
Sample Date		Client Info		**02 Nov 2023**	03 May 2023	29 Jan 2023
Machine Age	kms	Client Info		**129925**	110809	101649
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>130	**20**	25	48
Chromium	ppm	ASTM D5185(m)	>10	**<1**	1	2
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**9**	15	32
Lead	ppm	ASTM D5185(m)	>20	**<1**	<1	1
Copper	ppm	ASTM D5185(m)	>125	**2**	4	7
Tin	ppm	ASTM D5185(m)	>4	**0**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
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	**48**	54	31
Barium	ppm	ASTM D5185(m)	10	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**1**	4	10
Manganese	ppm	ASTM D5185(m)		**0**	<1	1
Magnesium	ppm	ASTM D5185(m)	450	**686**	708	691
Calcium	ppm	ASTM D5185(m)	3000	**1264**	1361	1315
Phosphorus	ppm	ASTM D5185(m)	1150	**667**	751	699
Zinc	ppm	ASTM D5185(m)	1350	**737**	773	722
Sulfur	ppm	ASTM D5185(m)	4250	**2559**	2488	2470
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	5	7
Sodium	ppm	ASTM D5185(m)		**2**	3	3
Potassium	ppm	ASTM D5185(m)	>20	**11**	22	53

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.4**	0.3	0.5
Nitration	Abs/cm	ASTM D7624*	>20	**9.8**	10.4	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	**20.2**	20.8	25.4

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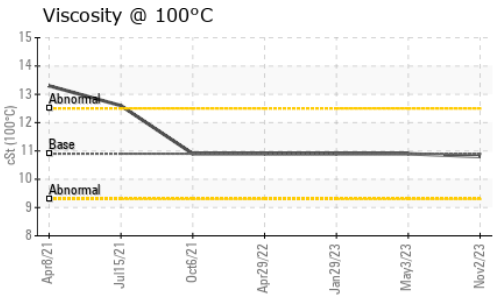
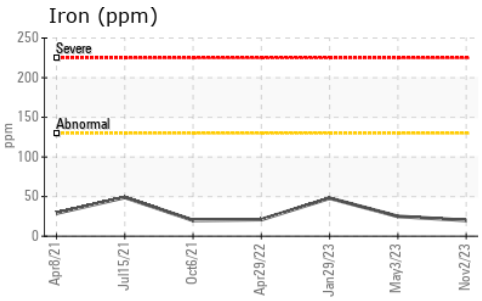


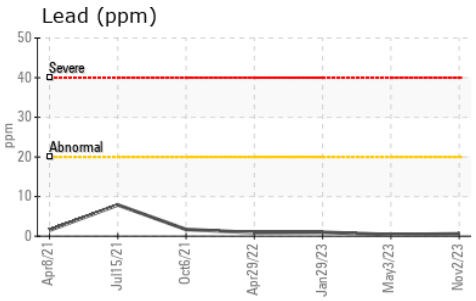
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**15.3**	15.7	19.9

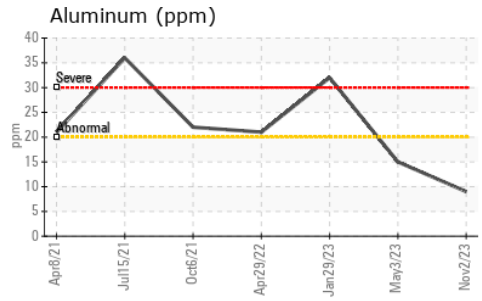
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

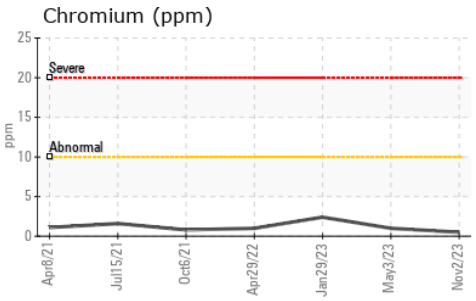
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**10.8**	10.9	10.9

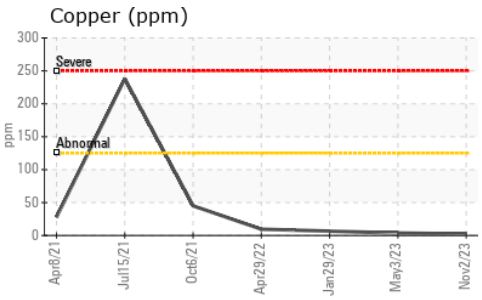
GRAPHS

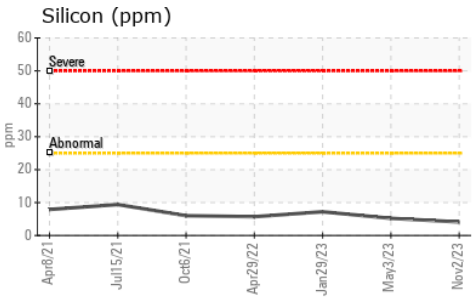


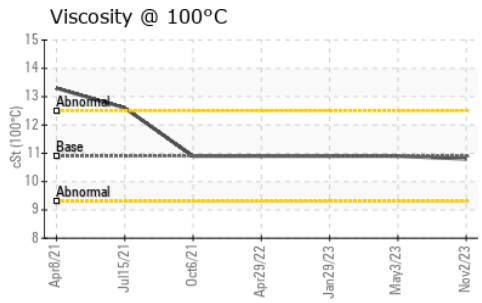


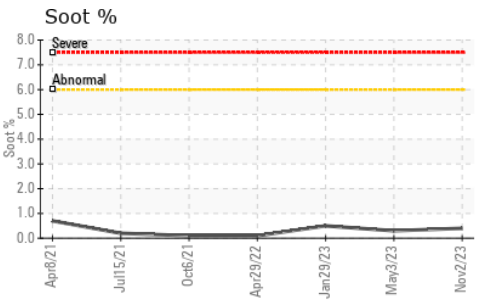












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853111 **Recieved** : 19 Jan 2024
Lab Number : 02609903 **Diagnosed** : 19 Jan 2024
Unique Number : 5710989 **Diagnostician** : Kevin Marson
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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