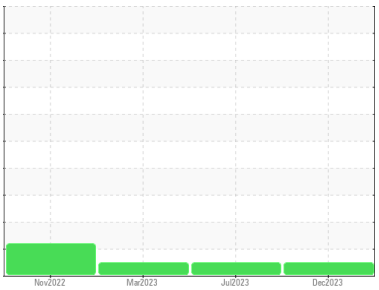
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
9736
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		**WC0853296**	WC0796430	WC0796483
Sample Date		Client Info		**09 Dec 2023**	14 Jul 2023	19 Mar 2023
Machine Age	kms	Client Info		**96401**	78505	59271
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)	>90	**45**	18	76
Chromium	ppm	ASTM D5185(m)	>20	**2**	<1	3
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	**6**	4	11
Lead	ppm	ASTM D5185(m)	>40	**4**	2	12
Copper	ppm	ASTM D5185(m)	>330	**5**	4	28
Tin	ppm	ASTM D5185(m)	>15	**1**	<1	5
Antimony	ppm	ASTM D5185(m)		**0**	0	<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	**24**	47	24
Barium	ppm	ASTM D5185(m)	10	**<1**	<1	6
Molybdenum	ppm	ASTM D5185(m)	100	**8**	8	61
Manganese	ppm	ASTM D5185(m)		**<1**	<1	5
Magnesium	ppm	ASTM D5185(m)	450	**705**	712	484
Calcium	ppm	ASTM D5185(m)	3000	**1388**	1391	1854
Phosphorus	ppm	ASTM D5185(m)	1150	**712**	755	1044
Zinc	ppm	ASTM D5185(m)	1350	**794**	811	1206
Sulfur	ppm	ASTM D5185(m)	4250	**2588**	2527	2504
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**10**	9	36
Sodium	ppm	ASTM D5185(m)		**3**	3	5
Potassium	ppm	ASTM D5185(m)	>20	**15**	10	33

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.4**	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	**11.8**	10.2	12.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	**27.0**	21.7	30.6

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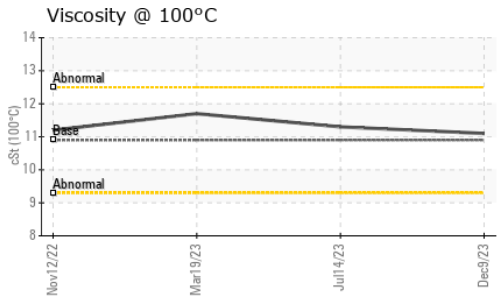
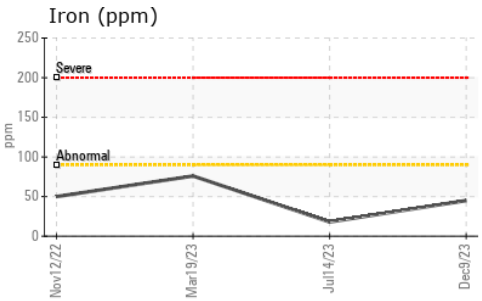


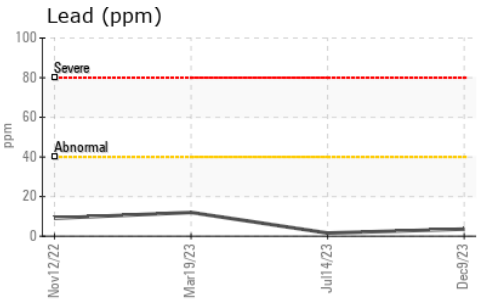
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**25.2**	17.2	28.4

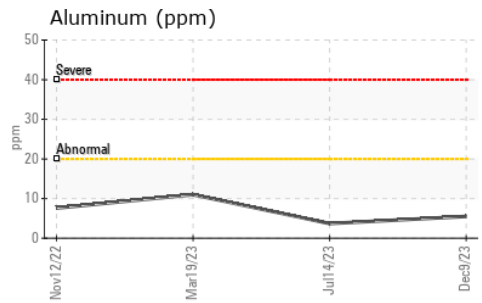
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

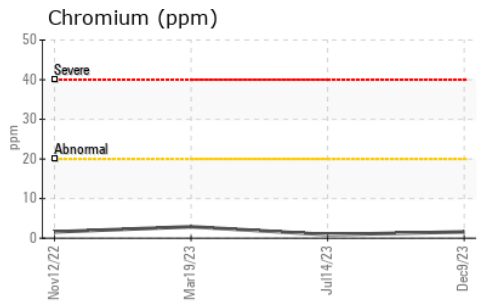
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.1**	11.3	11.7

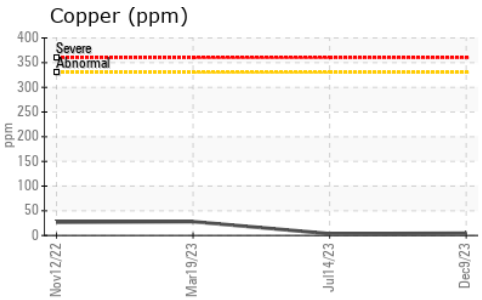
GRAPHS

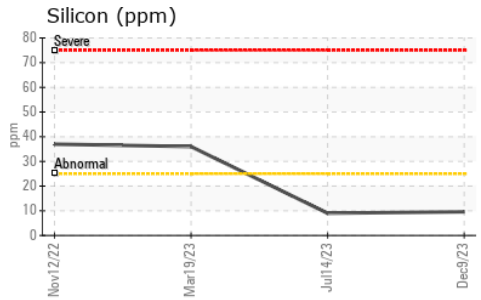


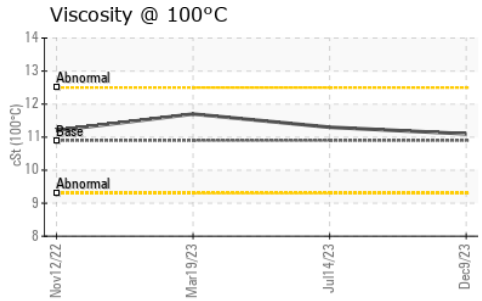


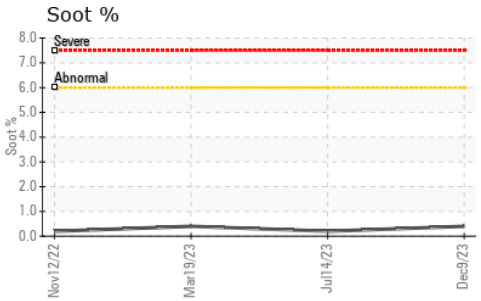












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853296 **Recieved** : 19 Jan 2024
Lab Number : 02609859 **Diagnosed** : 19 Jan 2024
Unique Number : 5710945 **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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