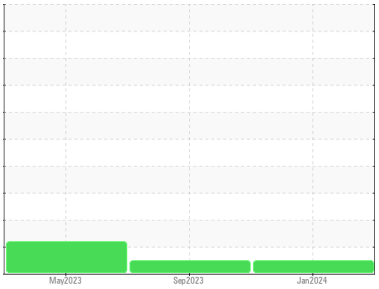
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
9764
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		**WC0853181**	WC0853374	WC0796576
Sample Date		Client Info		**16 Jan 2024**	11 Sep 2023	14 May 2023
Machine Age	kms	Client Info		**60168**	37042	16991
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	▲ 1.6
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	**30**	32	45
Chromium	ppm	ASTM D5185(m)	>20	**1**	1	1
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>20	**7**	3	6
Lead	ppm	ASTM D5185(m)	>40	**0**	0	<1
Copper	ppm	ASTM D5185(m)	>330	**1**	4	23
Tin	ppm	ASTM D5185(m)	>15	**0**	0	<1
Antimony	ppm	ASTM D5185(m)		**0**	0	0
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	**43**	38	31
Barium	ppm	ASTM D5185(m)	10	**0**	<1	5
Molybdenum	ppm	ASTM D5185(m)	100	**2**	6	47
Manganese	ppm	ASTM D5185(m)		**<1**	1	5
Magnesium	ppm	ASTM D5185(m)	450	**715**	745	825
Calcium	ppm	ASTM D5185(m)	3000	**1315**	1328	1293
Phosphorus	ppm	ASTM D5185(m)	1150	**651**	696	755
Zinc	ppm	ASTM D5185(m)	1350	**727**	771	839
Sulfur	ppm	ASTM D5185(m)	4250	**2603**	2416	1989
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**7**	10	24
Sodium	ppm	ASTM D5185(m)		**3**	3	6
Potassium	ppm	ASTM D5185(m)	>20	**11**	5	7

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.4**	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	**11.5**	10.2	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	**23.1**	21.8	21.8

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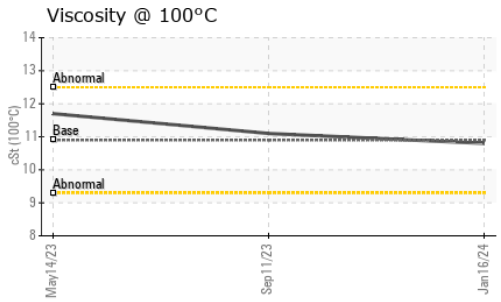
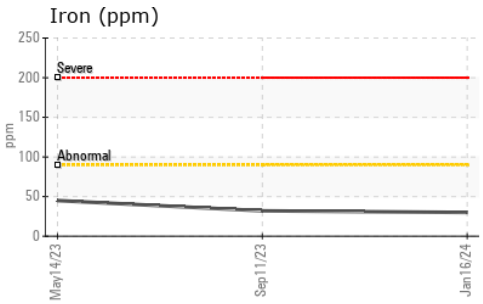


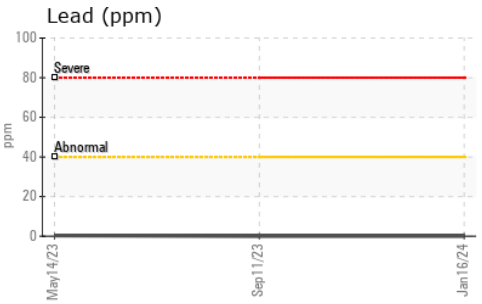
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**18.0**	18.3	20.9

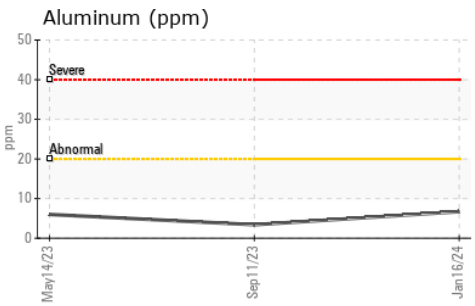
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

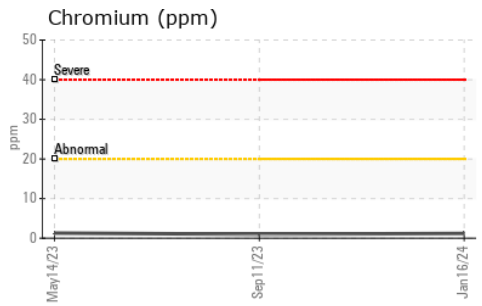
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**10.8**	11.1	▲ 11.7

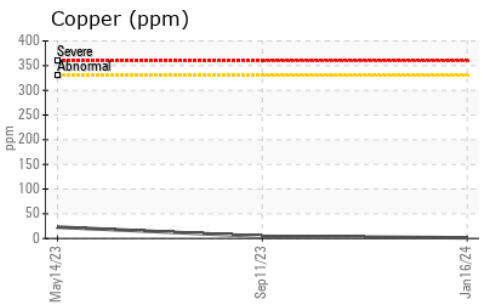
GRAPHS

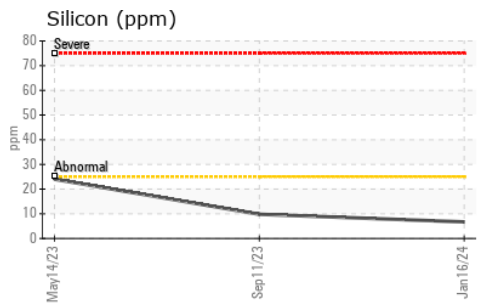


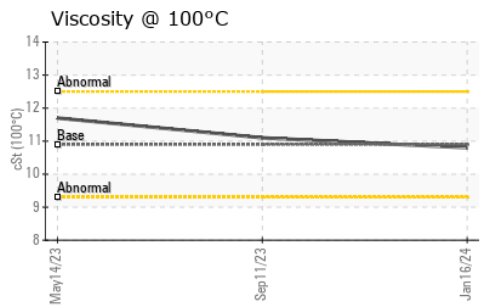


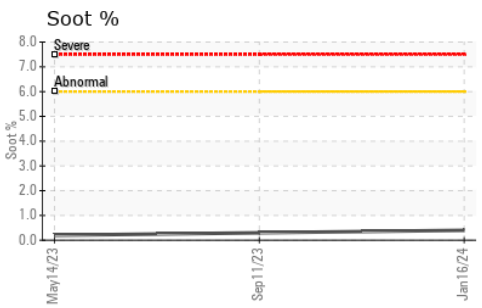












ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0853181	**Recieved**	: 19 Jan 2024
Lab Number	: 02609847	**Diagnosed**	: 19 Jan 2024
Unique Number	: 5710933	**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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