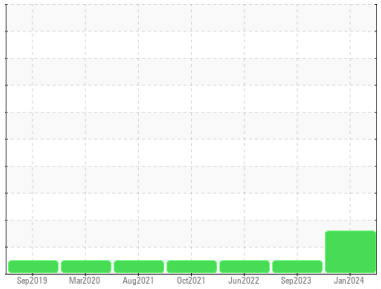
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Area
[42824246]
Machine Id
9488
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for faulty combustion and a possible overheat condition. The oil change at the time of sampling has been noted.

Wear
All component wear rates are normal.

Contamination
There is an abnormal level of sulfation indicated.

Fluid Condition
A small degree of oil oxidation was indicated. The oil is no longer serviceable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0853190**	WC0853359	WC0703092
Sample Date		Client Info		**06 Jan 2024**	24 Sep 2023	22 Jun 2022
Machine Age	kms	Client Info		**0**	416816	265052
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**ABNORMAL**	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	**40**	53	42
Chromium	ppm	ASTM D5185(m)	>20	**2**	2	2
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	0
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	<1
Silver	ppm	ASTM D5185(m)	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	**4**	8	5
Lead	ppm	ASTM D5185(m)	>40	**6**	7	7
Copper	ppm	ASTM D5185(m)	>330	**3**	2	4
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	2
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	**29**	31	24
Barium	ppm	ASTM D5185(m)	10	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	**2**	6	3
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	**681**	719	688
Calcium	ppm	ASTM D5185(m)	3000	**1238**	1309	1372
Phosphorus	ppm	ASTM D5185(m)	1150	**649**	685	668
Zinc	ppm	ASTM D5185(m)	1350	**716**	769	775
Sulfur	ppm	ASTM D5185(m)	4250	**2416**	2377	2478
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**5**	6	6
Sodium	ppm	ASTM D5185(m)		**3**	4	4
Potassium	ppm	ASTM D5185(m)	>20	**4**	16	9

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.4**	0.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	**14.8**	14.1	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	▲ **31.5**	29.4	27.2

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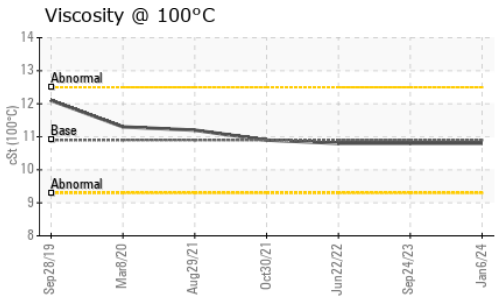
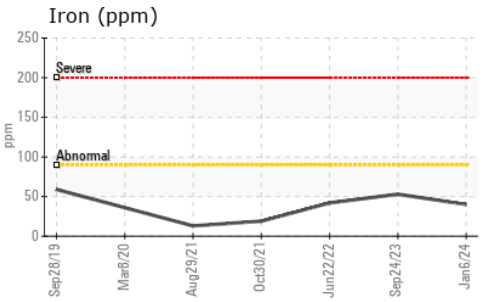


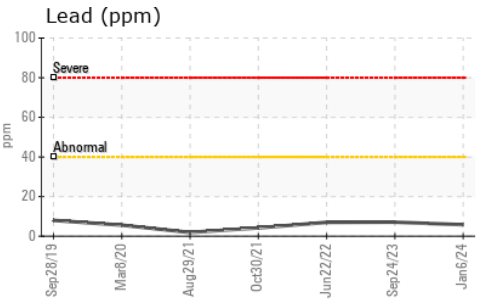
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	▲ **35.5**	30.0	21.9

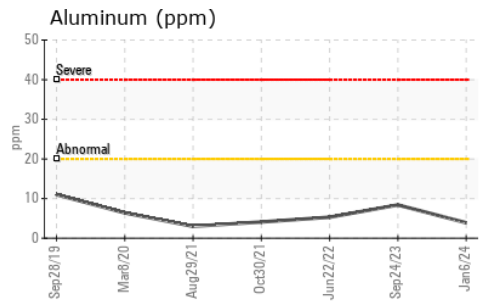
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

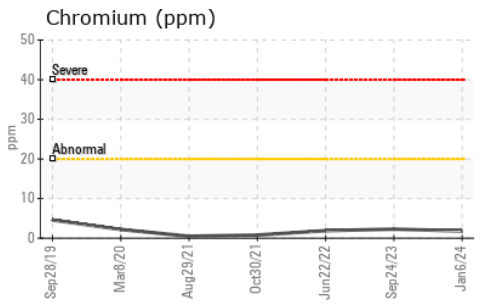
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**10.8**	10.8	10.8

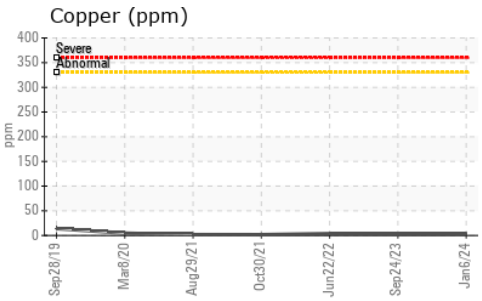
GRAPHS

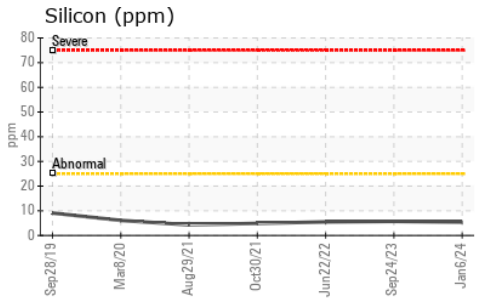


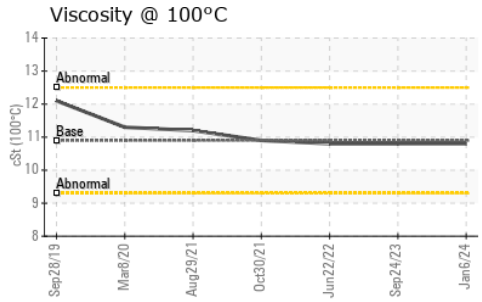


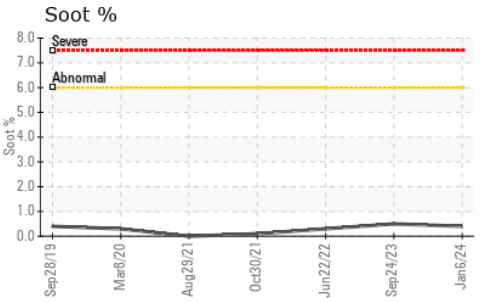












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853190 **Recieved** : 09 Jan 2024
Lab Number : 02607437 **Diagnosed** : 10 Jan 2024
Unique Number : 5708523 **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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