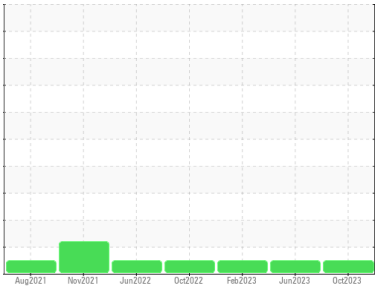
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[41590539]
Machine Id
7417
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		**WC0853216**	WC0796604	WC0702818
Sample Date		Client Info		**01 Oct 2023**	18 Jun 2023	11 Feb 2023
Machine Age	kms	Client Info		**185179**	162859	148422
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>130	**107**	37	72
Chromium	ppm	ASTM D5185(m)	>10	**3**	<1	2
Nickel	ppm	ASTM D5185(m)	>4	**<1**	<1	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	**14**	12	9
Lead	ppm	ASTM D5185(m)	>20	**1**	0	<1
Copper	ppm	ASTM D5185(m)	>125	**6**	2	5
Tin	ppm	ASTM D5185(m)	>4	**<1**	0	1
Antimony	ppm	ASTM D5185(m)		**0**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

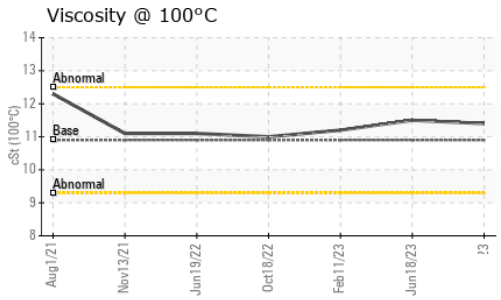
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**25**	58	23
Barium	ppm	ASTM D5185(m)	10	**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	100	**3**	3	4
Manganese	ppm	ASTM D5185(m)		**<1**	1	1
Magnesium	ppm	ASTM D5185(m)	450	**717**	707	671
Calcium	ppm	ASTM D5185(m)	3000	**1310**	1288	1312
Phosphorus	ppm	ASTM D5185(m)	1150	**658**	743	703
Zinc	ppm	ASTM D5185(m)	1350	**766**	739	732
Sulfur	ppm	ASTM D5185(m)	4250	**2385**	3020	2384
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**12**	7	9
Sodium	ppm	ASTM D5185(m)		**4**	4	3
Potassium	ppm	ASTM D5185(m)	>20	**17**	18	10

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**1.2**	0.4	0.9
Nitration	Abs/cm	ASTM D7624*	>20	**14.8**	10.4	15.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	**30.7**	23.3	29.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**31.4**	19.7	27.2

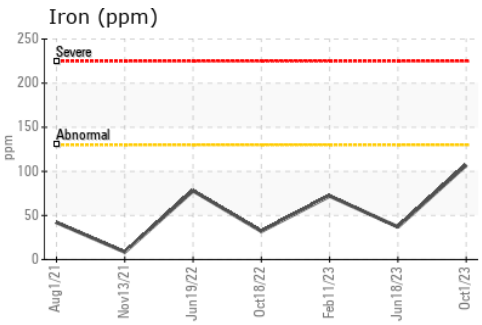
OIL ANALYSIS REPORT

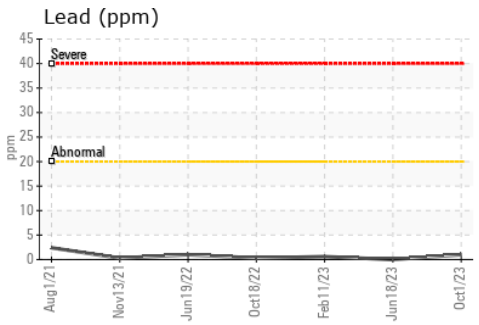


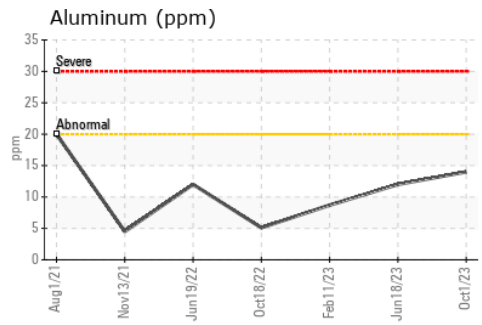
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

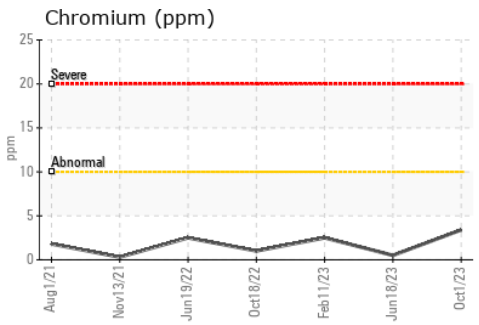
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.4**	11.5	11.2

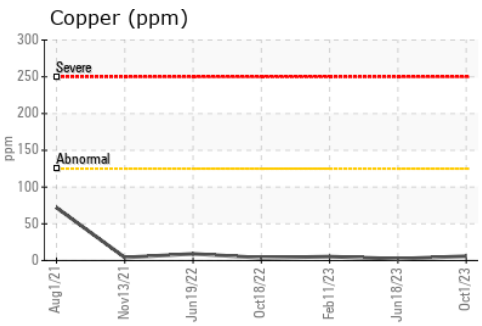
GRAPHS

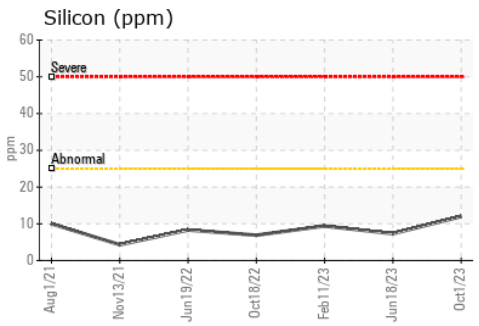


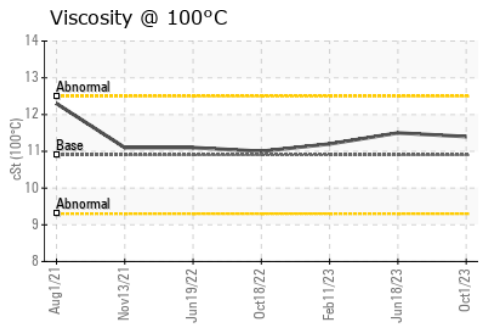


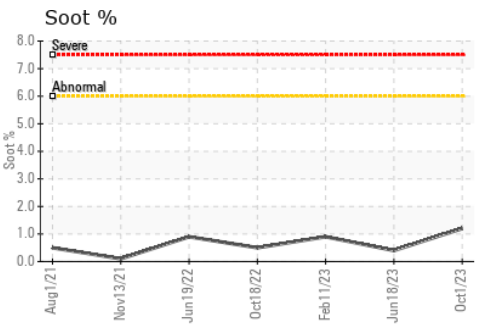












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853216
Lab Number : 02587057
Unique Number : 5656123
Test Package : MOB 1

Received : 05 Oct 2023
Diagnosed : 05 Oct 2023
Diagnostician : Kevin Marson

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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