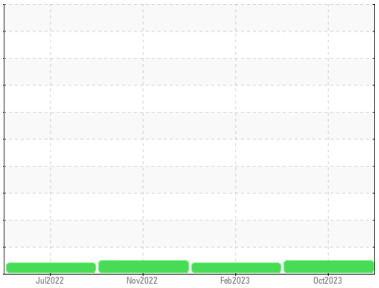
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[41666920]
Machine Id
9694
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		**WC0853344**	WC0702890	WC0737501
Sample Date		Client Info		**07 Oct 2023**	18 Feb 2023	12 Nov 2022
Machine Age	kms	Client Info		**0**	147696	101400
Oil Age	kms	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	0.8	<1.0
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	**31**	33	29
Chromium	ppm	ASTM D5185(m)	>20	**1**	2	2
Nickel	ppm	ASTM D5185(m)	>2	**1**	1	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Silver	ppm	ASTM D5185(m)	>2	**<1**	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	**6**	12	16
Lead	ppm	ASTM D5185(m)	>40	**4**	4	5
Copper	ppm	ASTM D5185(m)	>330	**2**	4	8
Tin	ppm	ASTM D5185(m)	>15	**<1**	1	2
Antimony	ppm	ASTM D5185(m)		**0**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	<1	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

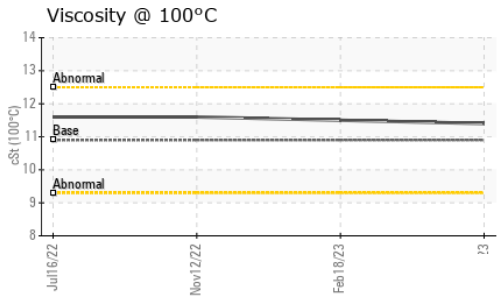
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	**20**	31	34
Barium	ppm	ASTM D5185(m)	10	**<1**	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	**1**	10	18
Manganese	ppm	ASTM D5185(m)		**<1**	1	1
Magnesium	ppm	ASTM D5185(m)	450	**752**	739	716
Calcium	ppm	ASTM D5185(m)	3000	**1362**	1468	1449
Phosphorus	ppm	ASTM D5185(m)	1150	**689**	788	780
Zinc	ppm	ASTM D5185(m)	1350	**793**	825	843
Sulfur	ppm	ASTM D5185(m)	4250	**2434**	2568	2471
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**7**	9	13
Sodium	ppm	ASTM D5185(m)		**3**	3	3
Potassium	ppm	ASTM D5185(m)	>20	**13**	31	45

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	**0.2**	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	**9.9**	9.9	9.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	**23.5**	24.8	22.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**18.9**	18.6	18.0

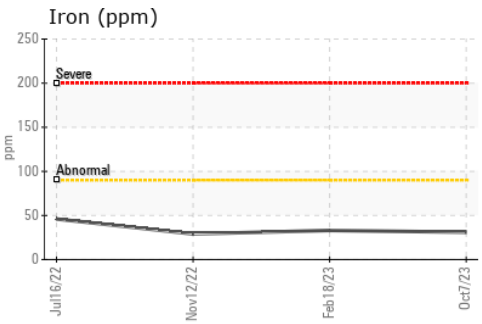
OIL ANALYSIS REPORT

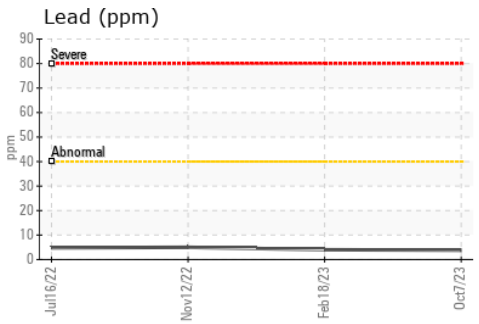


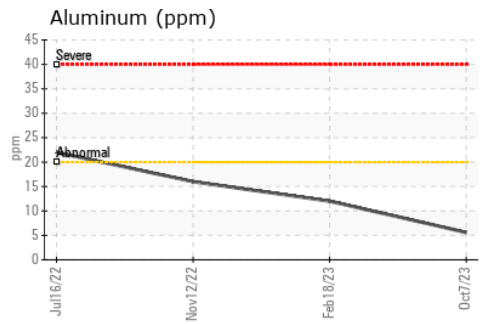
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

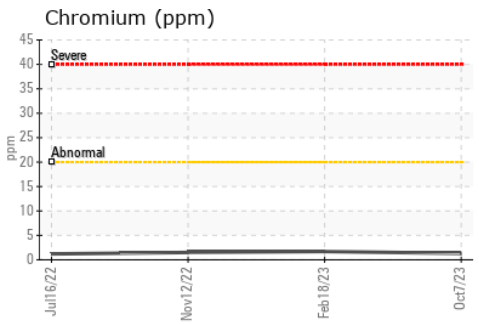
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	**11.4**	▲ 11.5	11.6

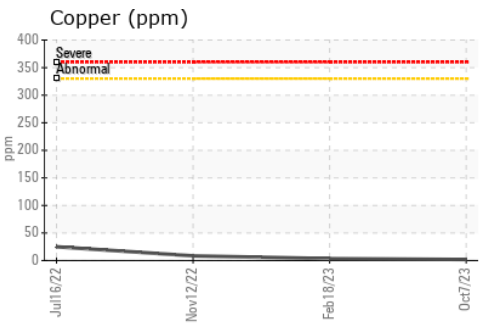
GRAPHS

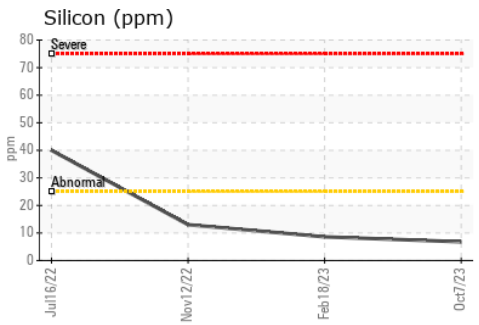


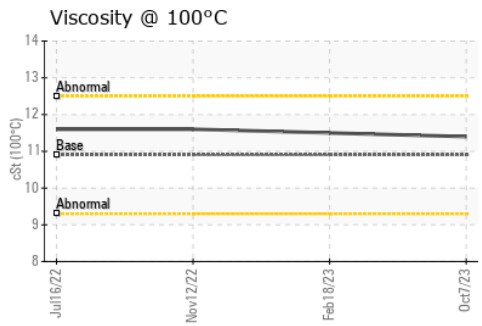


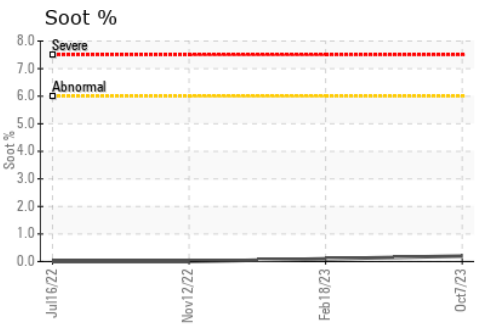












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853344
Lab Number : 02589519
Unique Number : 5658585
Test Package : MOB 1
Received : 17 Oct 2023
Diagnosed : 17 Oct 2023
Diagnostician : Wes Davis

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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