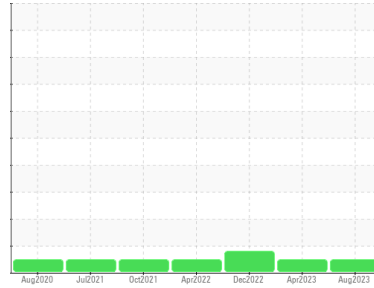




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id

7379

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

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			WC0796302	WC0796476	WC0702886
Sample Date	Client Info			03 Aug 2023	18 Apr 2023	17 Dec 2022
Machine Age	kms	Client Info		296017	281200	295863
Oil Age	kms	Client Info		0	0	0
Oil Changed	Client Info			Not Chngd	Not Chngd	Changed
Sample Status				NORMAL	NORMAL	MARGINAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>2.0		<1.0	<1.0	▲ 3.7
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	38	18	55
Chromium	ppm	ASTM D5185(m)	>20	2	1	3
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	3	28
Lead	ppm	ASTM D5185(m)	>40	2	1	6
Copper	ppm	ASTM D5185(m)	>330	3	1	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	2
Antimony	ppm	ASTM D5185(m)		0	<1	<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	32	45	47
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	8	9	49
Manganese	ppm	ASTM D5185(m)		<1	<1	1
Magnesium	ppm	ASTM D5185(m)	450	648	648	659
Calcium	ppm	ASTM D5185(m)	3000	1311	1402	1442
Phosphorus	ppm	ASTM D5185(m)	1150	699	743	723
Zinc	ppm	ASTM D5185(m)	1350	764	776	774
Sulfur	ppm	ASTM D5185(m)	4250	2338	2513	2255
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

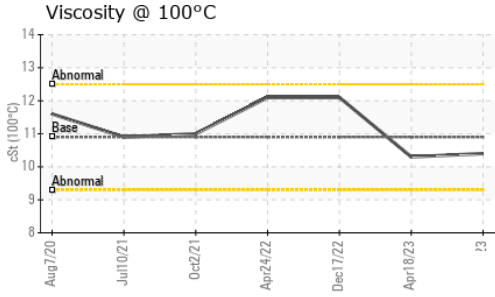
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	4	8
Sodium	ppm	ASTM D5185(m)		3	3	3
Potassium	ppm	ASTM D5185(m)	>20	7	5	59

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	13.7	11.6	14.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	29.7	22.6	32.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	30.5	20.6	36.6



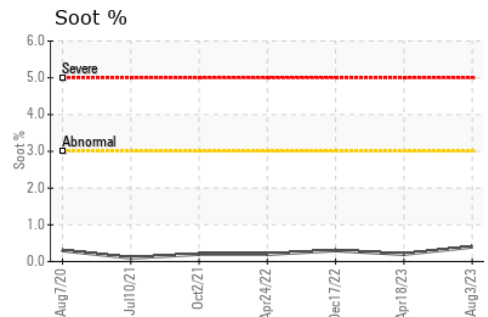
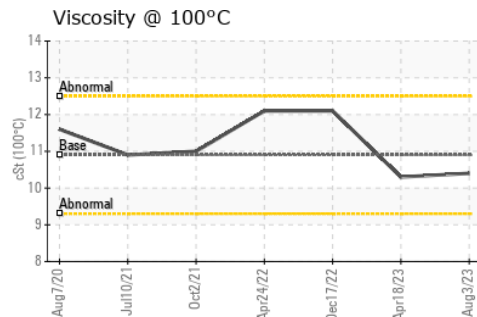
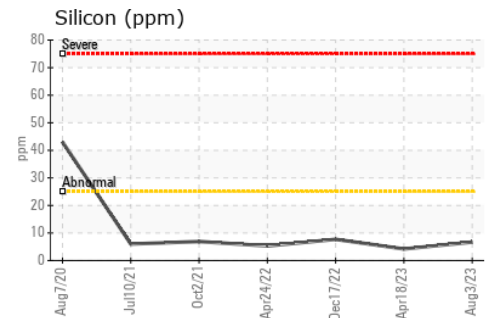
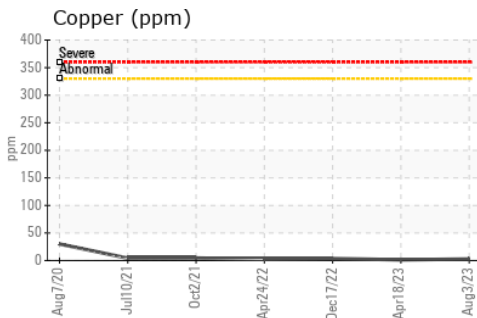
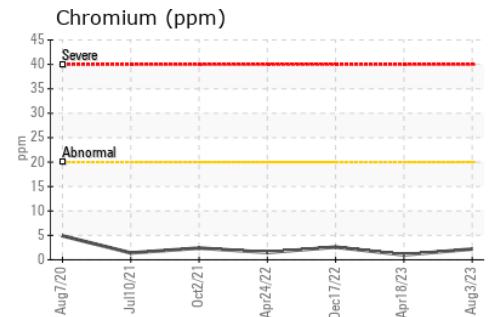
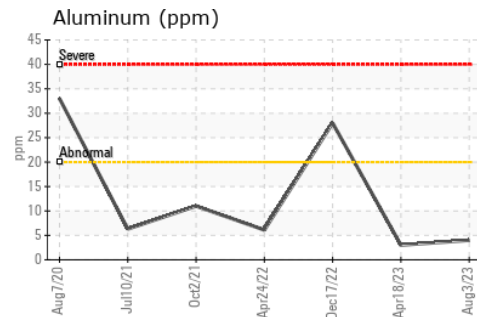
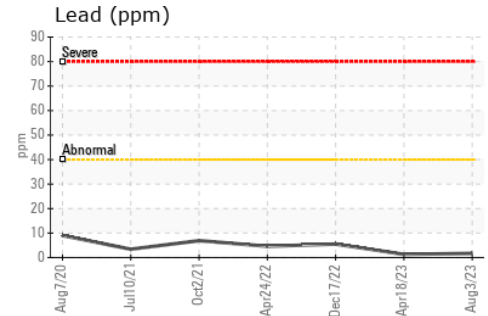
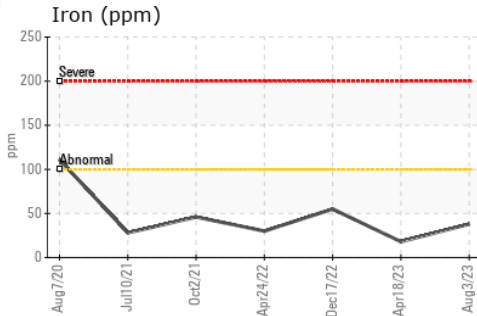
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	10.4	10.3

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0796302
Lab Number : 02580577
Unique Number : 5633637
Test Package : MOB 1

Received : 06 Sep 2023
Diagnosed : 06 Sep 2023
Diagnostician : Kevin Marson

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 Mississauga, ON
 CA L4T 1G9
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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.