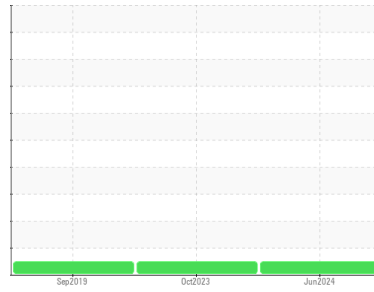




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

7378

Component

Diesel Engine

Fluid

DISEL 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			WC0924105	WC0853438	WC0385037
Sample Date	Client Info			19 Jun 2024	26 Oct 2023	23 Sep 2019
Machine Age	kms	Client Info		269293	243729	12414
Oil Age	kms	Client Info		0	0	0
Oil Changed	Client Info			Not Changed	Changed	Not Changed
Sample Status				NORMAL	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	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	44	37	85
Chromium	ppm	ASTM D5185(m)	>20	2	2	5
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	7	6	9
Lead	ppm	ASTM D5185(m)	>40	3	5	8
Copper	ppm	ASTM D5185(m)	>330	2	3	18
Tin	ppm	ASTM D5185(m)	>15	<1	<1	3
Antimony	ppm	ASTM D5185(m)		0	0	<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

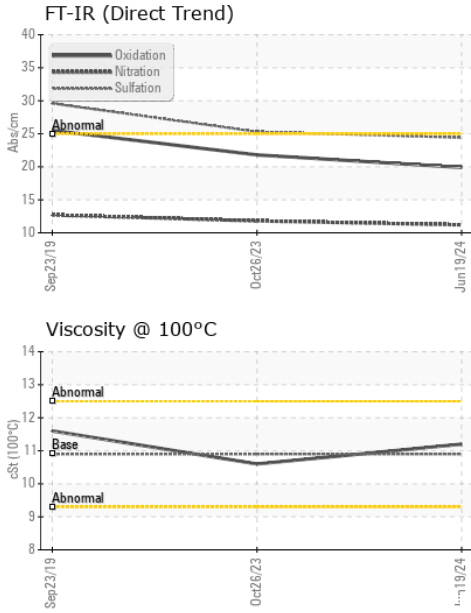
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	30	25	21
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	2	6	12
Manganese	ppm	ASTM D5185(m)		<1	<1	3
Magnesium	ppm	ASTM D5185(m)	450	720	709	748
Calcium	ppm	ASTM D5185(m)	3000	1289	1326	1548
Phosphorus	ppm	ASTM D5185(m)	1150	667	693	796
Zinc	ppm	ASTM D5185(m)	1350	770	772	937
Sulfur	ppm	ASTM D5185(m)	4250	2412	2551	2511
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	5	14
Sodium	ppm	ASTM D5185(m)		3	3	4
Potassium	ppm	ASTM D5185(m)	>20	8	8	14

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.5	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	11.2	11.8	12.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4	25.3	29.6



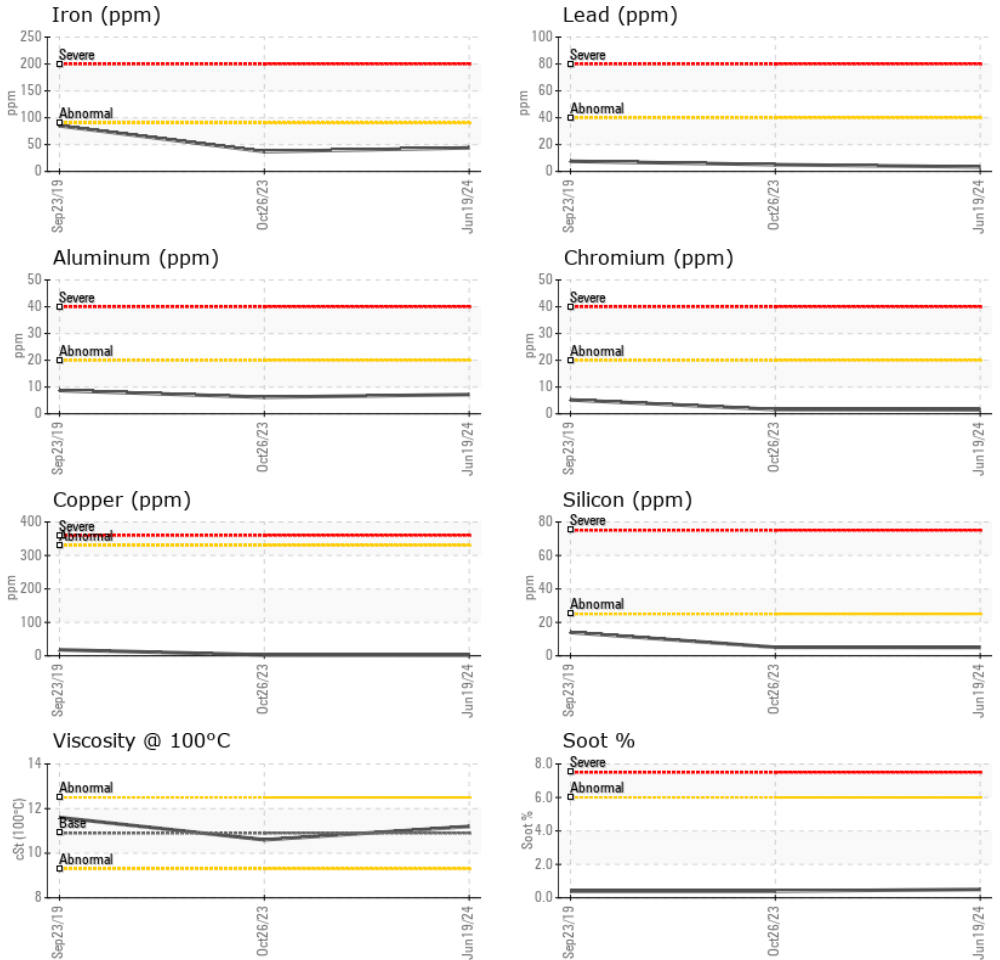
OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	19.9	21.8	25.5
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
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	11.2	10.6	11.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0924105 **Received** : 25 Jun 2024
Lab Number : **02643886** **Tested** : 25 Jun 2024
Unique Number : 5801425 **Diagnosed** : 25 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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