



OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Machine Id

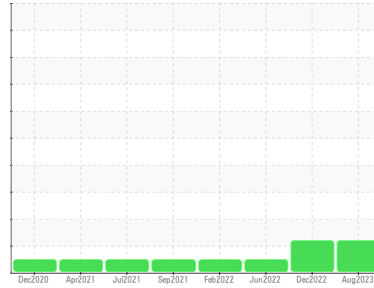
9513

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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		WC0702951	WC0737565	WC0702604
Sample Date	Client Info		05 Aug 2023	03 Dec 2022	15 Jun 2022
Machine Age	kms	Client Info	381179	359162	316237
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	32	76	11
Chromium	ppm	ASTM D5185(m)	>20	<1	2	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	7	14	2
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	2	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
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	40	24	69
Barium	ppm	ASTM D5185(m)	10	0	0	0
Molybdenum	ppm	ASTM D5185(m)	100	2	4	3
Manganese	ppm	ASTM D5185(m)		<1	1	<1
Magnesium	ppm	ASTM D5185(m)	450	777	732	729
Calcium	ppm	ASTM D5185(m)	3000	1497	1421	1348
Phosphorus	ppm	ASTM D5185(m)	1150	754	766	726
Zinc	ppm	ASTM D5185(m)	1350	822	815	814
Sulfur	ppm	ASTM D5185(m)	4250	2461	2448	2509
Lithium	ppm	ASTM D5185(m)		<1	<1	0

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	8	10	4
Sodium	ppm	ASTM D5185(m)	>158	3	3	2
Potassium	ppm	ASTM D5185(m)	>20	4	6	3
Fuel	%	ASTM D7593*	>3.0	▲ 1.9	▲ 3.5	<1.0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.5	1	0
Nitration	Abs/cm	ASTM D7624*	>20	11.6	15.3	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.2	33.1	21.2

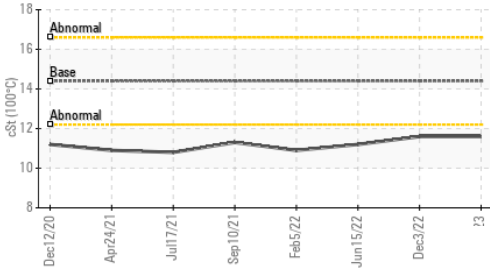
FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.3	33.8	14.2

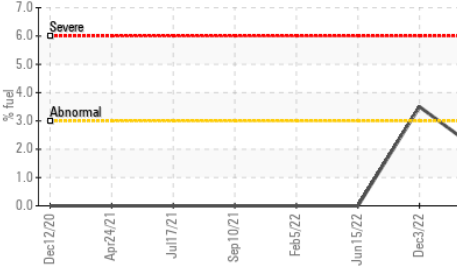


OIL ANALYSIS REPORT

▲ Viscosity @ 100°C



▲ Fuel Dilution

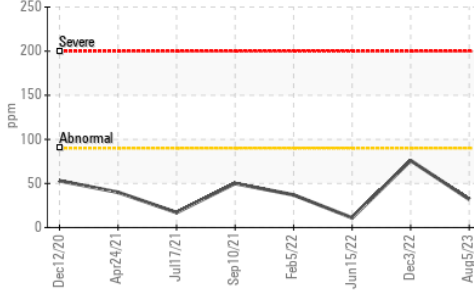


VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

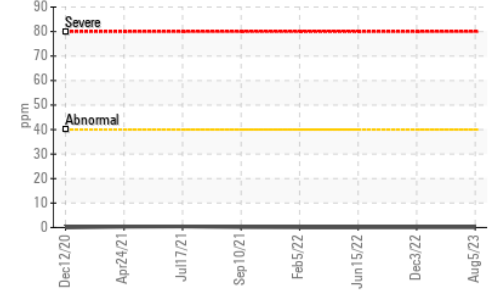
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4 ▲ 11.6	▲ 11.6	11.2

GRAPHS

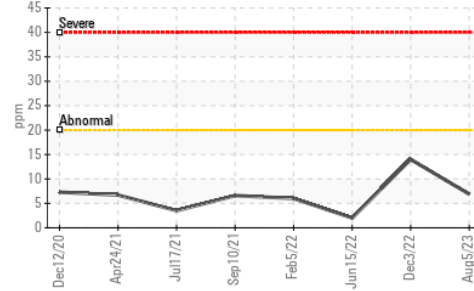
Iron (ppm)



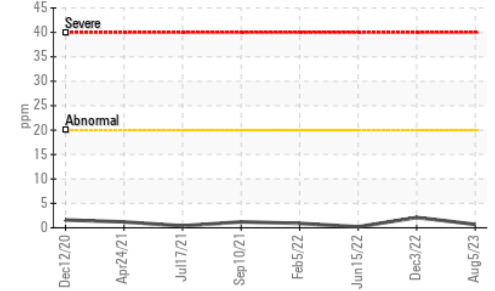
Lead (ppm)



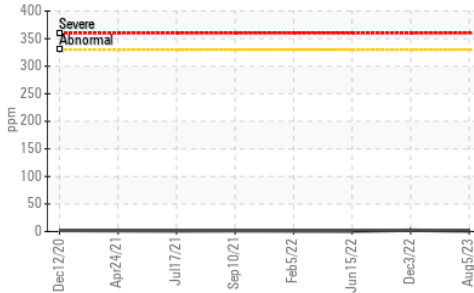
Aluminum (ppm)



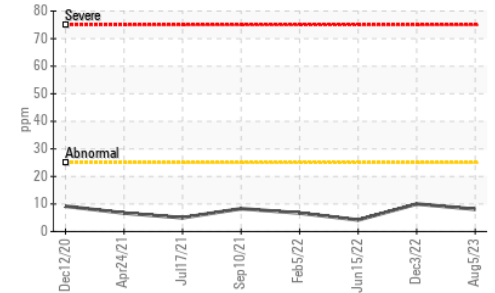
Chromium (ppm)



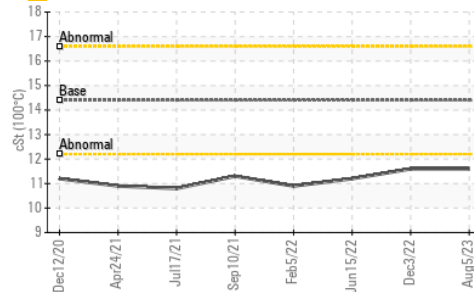
Copper (ppm)



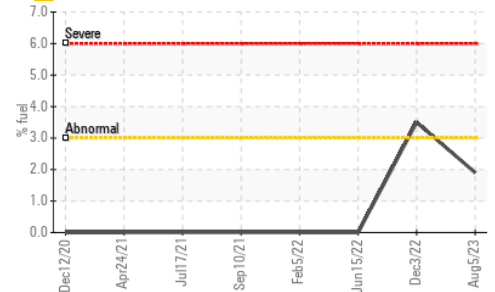
Silicon (ppm)



▲ Viscosity @ 100°C



▲ Fuel Dilution



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0702951 **Received** : 11 Aug 2023
Lab Number : 02575290 **Diagnosed** : 14 Aug 2023
Unique Number : 5620341 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

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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