

# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **52923** Component

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 10W30 (--- GAL)** 

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

Metal levels are typical for a new component breaking in.

## 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.

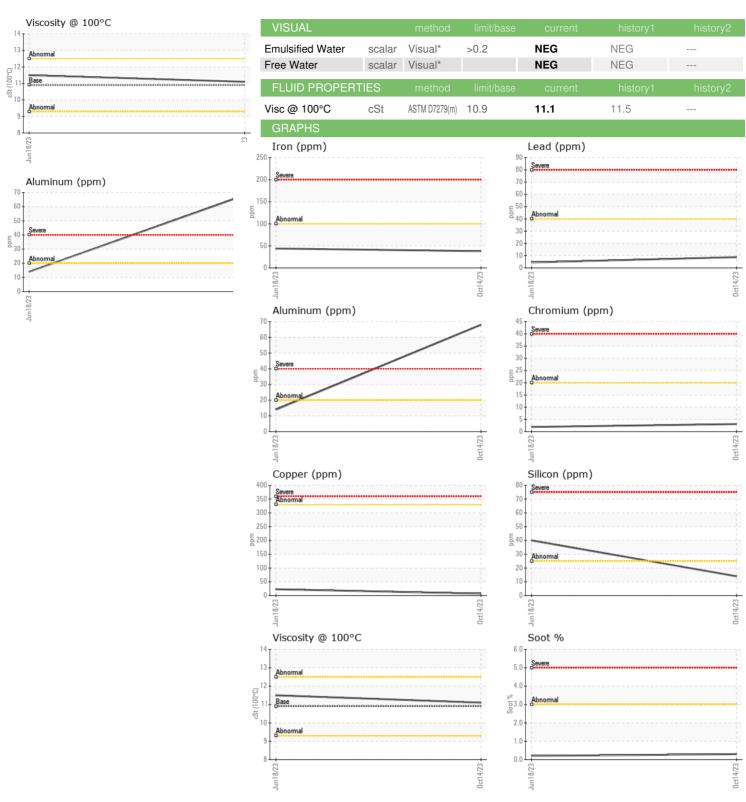
## **Fluid Condition**

The condition of the oil is acceptable for the time in service.

			Jun2023	0 ot 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864510	WC0797625	
Sample Date		Client Info		14 Oct 2023	18 Jun 2023	
Machine Age	mls	Client Info		62491	50553	
Oil Age	mls	Client Info		31938	0	
Oil Changed	11110	Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method	>5	<1.0 NEG	NEG	
		VVO IVIETITOU		MEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	38	44	
Chromium	ppm	ASTM D5185(m)	>20	3	2	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	68	14	
Lead	ppm	ASTM D5185(m)	>40	9	4	
Copper	ppm	ASTM D5185(m)	>330	7	23	
Tin	ppm	ASTM D5185(m)	>15	2	4	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	7	56	
Barium	ppm	ASTM D5185(m)	10	<1	5	
Molybdenum	ppm	ASTM D5185(m)	100	63	67	
Manganese	ppm	ASTM D5185(m)		2	6	
Magnesium	ppm	ASTM D5185(m)	450	931	450	
Calcium	ppm	ASTM D5185(m)	3000	1193	1737	
Phosphorus	ppm	ASTM D5185(m)	1150	990	1050	
Zinc	ppm	ASTM D5185(m)	1350	1250	1206	
Sulfur	ppm	ASTM D5185(m)	4250	2317	2354	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	14	40	
Sodium	ppm	ASTM D5185(m)		3	4	
Potassium	ppm	ASTM D5185(m)	>20	166	40	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	0.2	
Nitration	Abs/cm	ASTM D7624*	>20	9.0	8.4	
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.0	22.3	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.4	20.0	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 1

: WC0864510 : 02589465

: 5658531

Received Diagnosed Diagnostician

: 17 Oct 2023 : 17 Oct 2023 : Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 MANITOULIN TRANSPORT (GARAGE) 1335 SHAWSON DRIVE MISSISSAUGA, ON CA L4W 1C4

Contact: Shane Irwin sirwin@manitoulintransport.com

T: x: F: (905)564-6361

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.