

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

SANDVIK DD321 JUM010

Diesel Engine

Fluid DIESEL ENGINE OIL SAE 15W40 (--- 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.

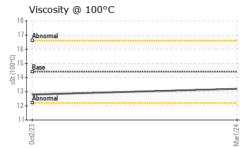
Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0914386	WC0840191	
Sample Date		Client Info		01 Mar 2024	02 Oct 2023	
Machine Age	hrs	Client Info		1239	1180	
Oil Age	hrs	Client Info		250	250	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	2	4	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>4	۰ <1	0	
Titanium	ppm	ASTM D5185(m)	77	0	0	
Silver	ppm	ASTM D5185(m) ASTM D5185(m)	>3	0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	1	1	
Lead		ASTM D5185(m)	>40	0	<1	
Copper	ppm ppm	ASTM D5185(m)	>330	<1	2	
Tin	ppm	ASTM D5185(m)	>15	0	0	
Antimony	ppm	ASTM D5185(m)	>10	0	0	
Vanadium		ASTM D5185(m)		0	0	
Beryllium	ppm ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES	ppin	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	59	98	
Barium	ppm	ASTM D5185(m)	10	0	<1	
Molybdenum	ppm	ASTM D5185(m)	100	39	22	
Manganese	ppm	ASTM D5185(m)	450	0	0	
Magnesium	ppm	ASTM D5185(m)	450	507	262	
Calcium	ppm	ASTM D5185(m)	3000	1616	1870	
Phosphorus	ppm	ASTM D5185(m)	1150	776 844	826	
Zinc	ppm	ASTM D5185(m)	1350	•••	950	
Sulfur Lithium	ppm	ASTM D5185(m)	4250	2273	2476	
	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	4	
Sodium	ppm	ASTM D5185(m)	>158	2	3	
Potassium	ppm	ASTM D5185(m)	>20	<1	3	
INFRA-RED		method	limit/base		history1	history2
Soot %	%	ASTM D7844*	>3	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	4.7	5.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	21.0	



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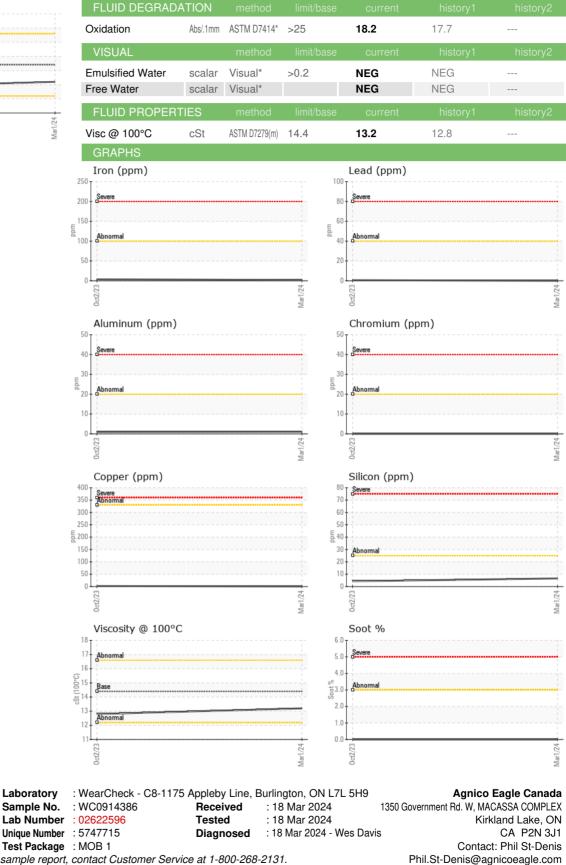


CALA

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ISO 17025:2017 Accredited

Laboratory



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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