

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **R277** Component **Diesel Engine** Fluid SHELL 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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.

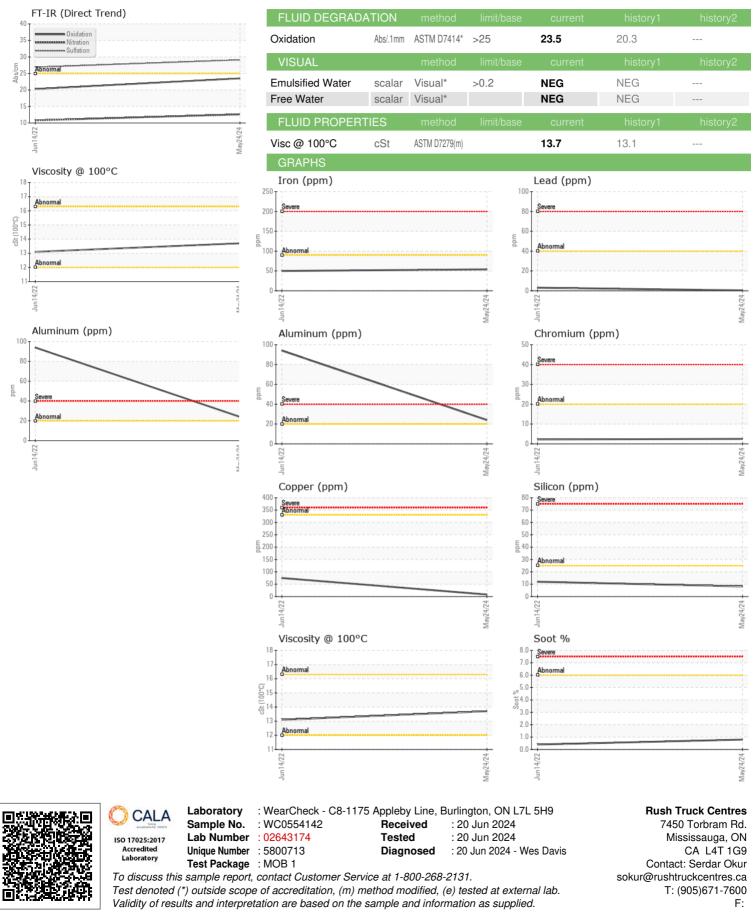
Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0554142	WC0553381	
Sample Date		Client Info		24 May 2024	14 Jun 2022	
Machine Age	kms	Client Info		173334	67776	
Oil Age	kms	Client Info		0	67776	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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)	>90	54	50	
Chromium	ppm	ASTM D5185(m)	>20	2	2	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	24	94	
Lead	ppm	ASTM D5185(m)	>40	<1	3	
Copper	ppm	ASTM D5185(m)	>330	8	75	
Tin	ppm	ASTM D5185(m)	>15	<1	2	
Antimony	ppm	ASTM D5185(m)		0	<1	
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)		36	51	
Barium	ppm	ASTM D5185(m)		<1	1	
Molybdenum	ppm	ASTM D5185(m)		<1	9	
Manganese	ppm	ASTM D5185(m)		<1	2	
Magnesium	ppm	ASTM D5185(m)		16	111	
Calcium	ppm	ASTM D5185(m)		2246	2067	
Phosphorus	ppm	ASTM D5185(m)		838	926	
Zinc	ppm	ASTM D5185(m)		1068	1124	
Sulfur	ppm	ASTM D5185(m)		2737	2637	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	12	
Sodium	ppm	ASTM D5185(m)	>150	3	5	
Potassium	ppm	ASTM D5185(m)	>20	40	184	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.8	0.4	
Nitration	Abs/cm	ASTM D7624*	>20	12.6	10.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	29.1	26.9	



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