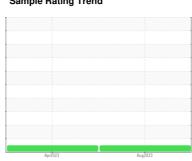


OIL ANALYSIS REPORT

Sample Rating Trend







WESTERN STAR 309

Component

Diesel Engine

KENDALL 10W30 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

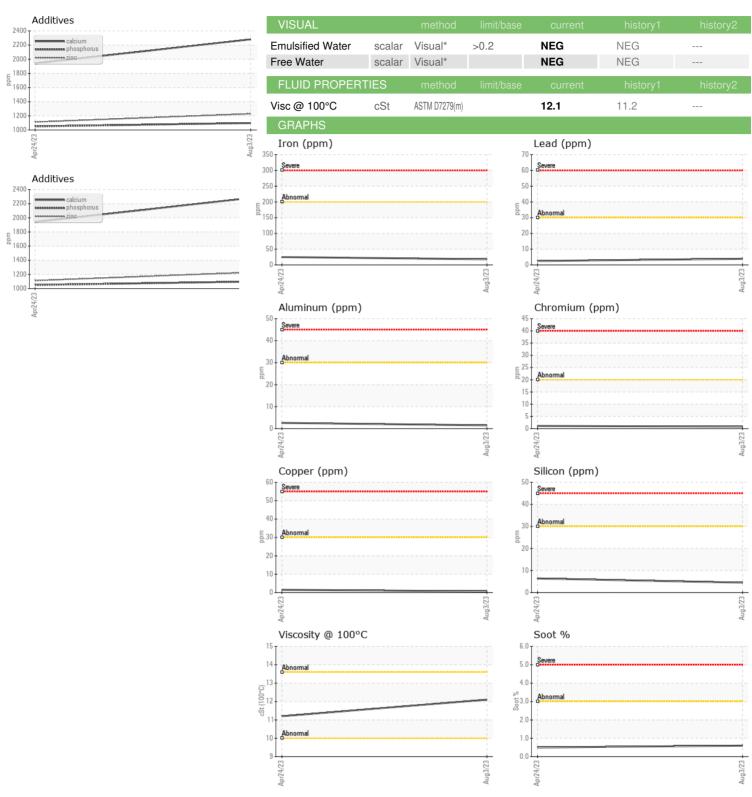
Fluid Condition

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

			Apr2023	Aug ² 023		
OANABI E INIEOBI	MATION					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0838804	WC0755296	
Sample Date		Client Info		03 Aug 2023	24 Apr 2023	
Machine Age	hrs	Client Info		16473	15162	
Oil Age	hrs	Client Info		0	496	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	Ν	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	18	25	
Chromium	ppm	ASTM D5185(m)	>20	<1	1	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	
Titanium	ppm	ASTM D5185(m)	>2	21	37	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>30	2	3	
Lead	ppm	ASTM D5185(m)	>30	4	2	
Copper	ppm	ASTM D5185(m)	>30	<1	2	
Tin	ppm	ASTM D5185(m)	>15	1	1	
Antimony	ppm	ASTM D5185(m)		0	<1	
Vanadium	ppm	ASTM D5185(m)		<1	<1	
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)		75	72	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		56	54	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)		125	214	
Calcium	ppm	ASTM D5185(m)		2280	1941	
Phosphorus	ppm	ASTM D5185(m)		1098	1051	
Zinc	ppm	ASTM D5185(m)		1229	1112	
Sulfur	ppm	ASTM D5185(m)		3086	3156	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	4	6	
Sodium	ppm	ASTM D5185(m)		2	4	
Potassium	ppm	ASTM D5185(m)	>20	3	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.5	
Nitration	Abs/cm	ASTM D7644*	>20	8.4	8.5	
Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*	>30	21.2	19.8	
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	14.2	
ONIUALIUIT	Who/'IIIIII	A311VI D7414	>20	14.0	14.4	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory **Unique Number**

Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0838804 : 02575299

: 5620350 Test Package : MOB 1

Received Diagnosed Diagnostician

: 11 Aug 2023 : 11 Aug 2023 : Wes Davis

Contact: Alison Nyland alison.nyland@thomassolutions.ca

> T: (905)545-8808 F: (905)549-9016

Thomas Solutions

70 Beach Road

Hamilton, ON

CA L7L 8K3

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.