

OIL ANALYSIS REPORT

Sample Rating Trend





Area BD SHOP Machine Id 200295 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 LTR)

DIAGNOOIO

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (AI) 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.

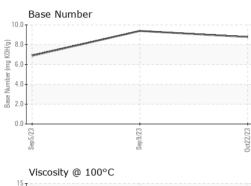
Fluid Condition

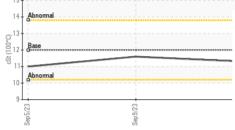
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

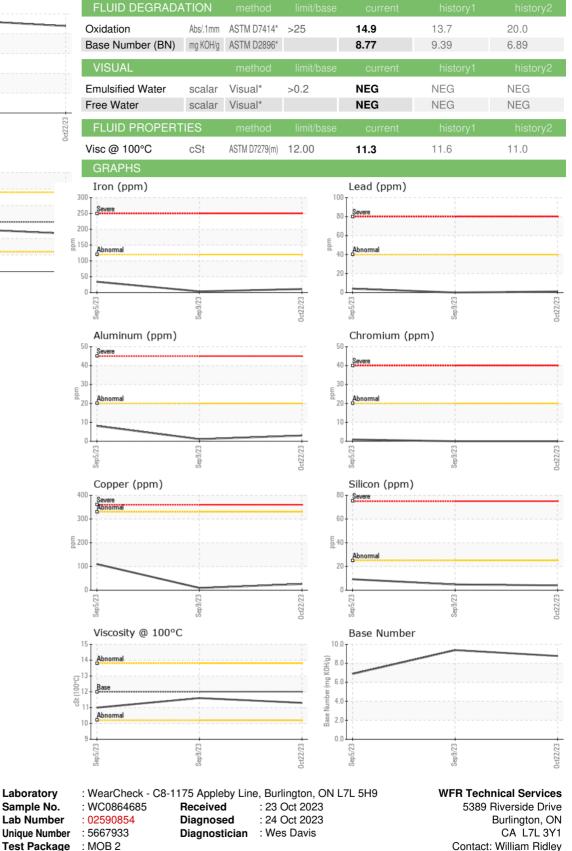
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864685	WC0852028	WC0852027
Sample Date		Client Info		22 Oct 2023	09 Sep 2023	05 Sep 2023
Machine Age	kms	Client Info		143002	122303	122303
Oil Age	kms	Client Info		20679	0	62698
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	11	4	34
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>15	2	0	2
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	1	8
Lead	ppm	ASTM D5185(m)	>40	1	0	4
Copper	ppm	ASTM D5185(m)	>330	26	9	110
Tin	ppm	ASTM D5185(m)	>15	<1	0	2
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	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)	2	2	3	4
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	50	60	56	66
Manganese	ppm	ASTM D5185(m)	0	0	<1	1
Magnesium	ppm	ASTM D5185(m)	950	977	945	934
Calcium	ppm	ASTM D5185(m)	1050	1072	1011	1093
Phosphorus	ppm	ASTM D5185(m)	995	1001	1039	906
Zinc	ppm	ASTM D5185(m)	1180	1179	1131	1110
Sulfur	ppm	ASTM D5185(m)	2600	2509	2530	2039
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	5	9
Sodium	ppm	ASTM D5185(m)		2	2	3
Potassium	ppm	ASTM D5185(m)	>20	5	2	21
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.1	0	0.4
Nitration	Abs/cm	ASTM D7624*	>20	7.1	5.1	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	18.2	23.1



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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.

CALA

ISO 17025:2017

Accredited

Laboratory

Laboratory

Sample No.

Lab Number

Unique Number

Т:

F:

wfr.technical.services@gmail.com