

OIL ANALYSIS REPORT

Sample Rating Trend



Area KDAC Machine Id 200206

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (40 LTR)

DIAGNOSIS

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

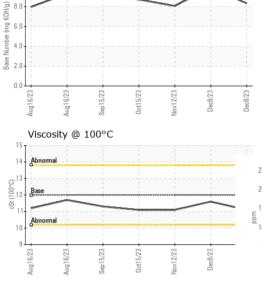
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

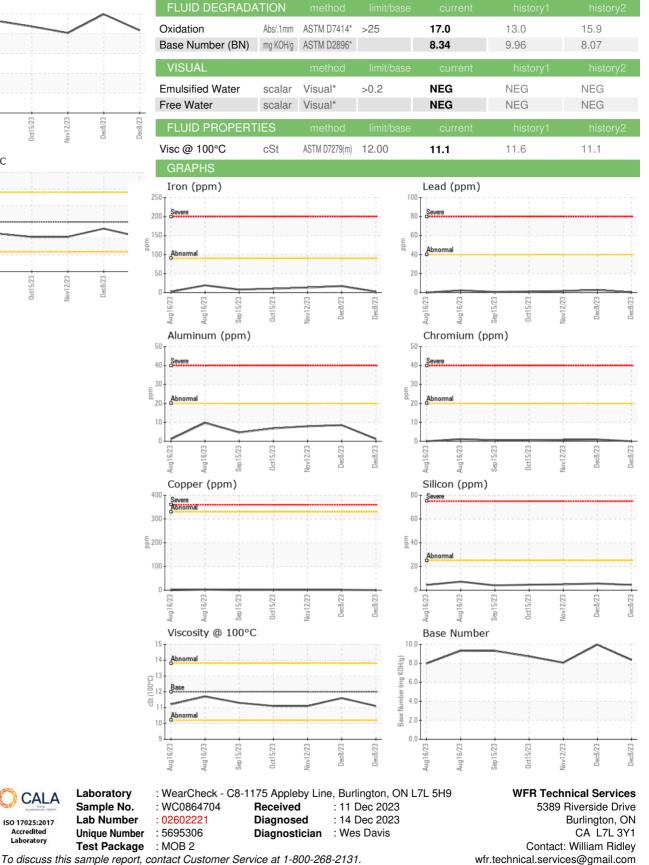
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864704	WC0864705	WC0864681
Sample Date		Client Info		08 Dec 2023	08 Dec 2023	12 Nov 2023
Machine Age	kms	Client Info		243561	245552	229256
Oil Age	kms	Client Info		59655	1	45350
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
	nnm		>90		2	13
Iron	ppm	ASTM D5185(m)		17 <1	2	<1
Chromium Nickel	ppm	ASTM D5185(m)	>20	<1 <1	0	<1
	ppm	ASTM D5185(m)	>2		0	
Titanium Silver	ppm	ASTM D5185(m)		0	<1	0 <1
Aluminum	ppm	ASTM D5185(m)	>2	<1 °	<1	<1
	ppm	ASTM D5185(m)		8		
Lead	ppm	ASTM D5185(m)	>40	3	<1	2
Copper	ppm	ASTM D5185(m)		2	<1	1
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
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	4	6	4
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	60	56	59
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	975	927	970
Calcium	ppm	ASTM D5185(m)	1050	1078	1026	1058
Phosphorus	ppm	ASTM D5185(m)	995	987	974	962
Zinc	ppm	ASTM D5185(m)	1180	1192	1128	1205
Sulfur	ppm	ASTM D5185(m)	2600	2407	2560	2433
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	4	5
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	20	2	19
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.2	0	0.1
Soot % Nitration	% Abs/cm	ASTM D7844* ASTM D7624*	>6 >20	0.2 8.3	0 4.5	0.1 7.4



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Base Number 10.0





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

T:

F: