

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 801039

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (22 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

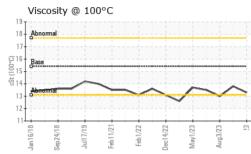
Fluid Condition

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

rr)		lan2018 Sep2	018 Jul2019 Feb2021	Feb2022 Dec2022 May2023 Aug	2023 Nov202	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094186	GFL0091067	GFL0091039
Sample Date		Client Info		01 Nov 2023	23 Aug 2023	03 Aug 2023
lachine Age	kms	Client Info		108944	160	108944
Dil Age	kms	Client Info		0	0	0
Dil Changed		Client Info		Changed	Not Changd	Changed
Sample Status			11 11 /1	NORMAL	NORMAL	ATTENTION
	TION	method WC Method	limit/base	current	history1 <1.0	history2
Glycol		WC Method	>0	<1.0 NEG	<1.0 NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>80	23	8	22
hromium	ppm	ASTM D5185(m)		<1	<1	<1
lickel	ppm	ASTM D5185(m)	>2	<1	0	<1
ïtanium	ppm	ASTM D5185(m)	2	0	0	0
ilver	ppm	ASTM D5185(m)		<1	0	0
luminum	ppm	ASTM D5185(m)		8	4	13
ead	ppm	ASTM D5185(m)	>30	0	0	0
opper in	ppm	ASTM D5185(m)		1 0	<1 0	2
ntimony	ppm	ASTM D5185(m) ASTM D5185(m)	>5	0	<1	0
anadium	ppm	ASTM D5185(m)		0	0	0
eryllium	ppm	ASTM D5185(m)		0	0	0
admium	ppm ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	15	29	▲ 157
Barium	ppm	ASTM D5185(m)		<1	0	0
lolybdenum	ppm	ASTM D5185(m)	60	64	60	78
langanese	ppm	ASTM D5185(m)	0	0	<1	<1
lagnesium	ppm	ASTM D5185(m)	1010	854	867	5 10
Calcium	ppm	ASTM D5185(m)	1070	1080	1062	1265
hosphorus	ppm	ASTM D5185(m)	1150	980	1046	1060
linc	ppm	ASTM D5185(m)	1270	1193	1143	1188
Sulfur	ppm	ASTM D5185(m)	2060	2503	2594	2624
ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	3	5
Sodium	ppm	ASTM D5185(m)		7	4	7
otassium	ppm	ASTM D5185(m)	>20	12	6	21
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.6	0.1	0.5
litration	Abs/cm	ASTM D7624*	>20	9.9	6.3	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	19.8	24.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	ASTM D7414*	>25	16.4	13.9	17.8
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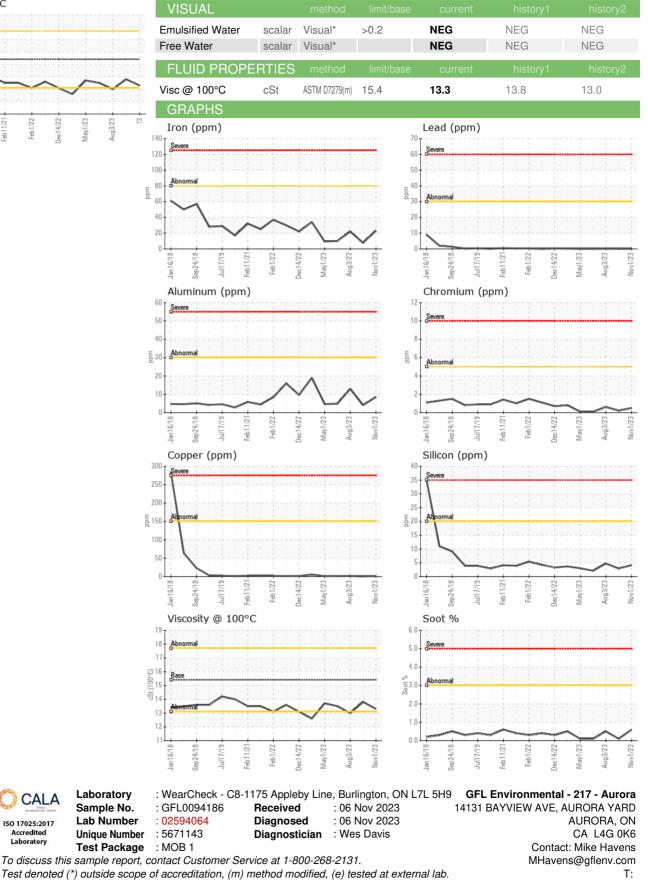


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CALA

ISO 17025:2017 Accredited Laboratory



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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F: (905)713-2445