

OIL ANALYSIS REPORT





Machine Id 211005-632125

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil sample)

A Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

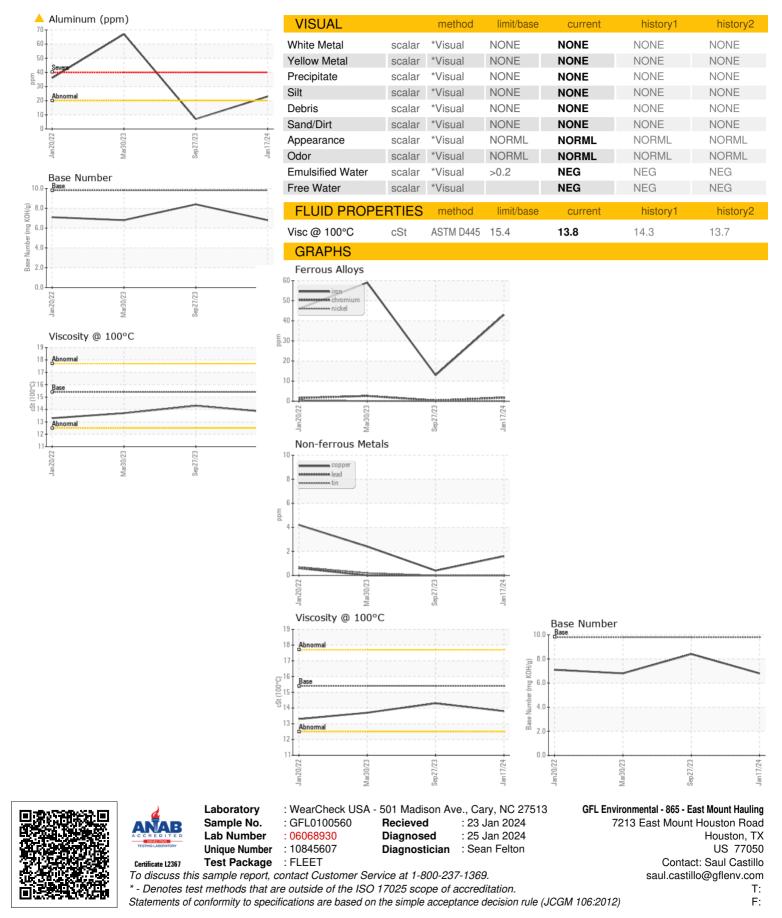
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

āAL)		Jan202	2 Mar2023	Sep2023 J	an2024	
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100560	GFL0093255	GFL0074179
Sample Date		Client Info		17 Jan 2024	27 Sep 2023	30 Mar 2023
Machine Age	mls	Client Info		153726	137233	2669
Oil Age	mls	Client Info		153726	137233	2669
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	43	13	59
Chromium	ppm	ASTM D5185m	>20	2	<1	3
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	7	6 7
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	62	62
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	1033	1008	956
Calcium	ppm	ASTM D5185m	1070	1134	1249	1103
Phosphorus	ppm	ASTM D5185m	1150	1066	1059	993
Zinc	ppm	ASTM D5185m	1270	1344	1313	1257
Sulfur	ppm	ASTM D5185m	2060	2963	3015	2918
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	4	10
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	20	11	141
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3	0.5	1.2
Nitration	Abs/cm	*ASTM D7624	>20	12.0	8.5	13.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	19.4	25.1
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	16.2	23.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	8.4	6.8
-50-04) Boy: 1						

Submitted By: TECHNICIAN ACCOUNT



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