

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

426121 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

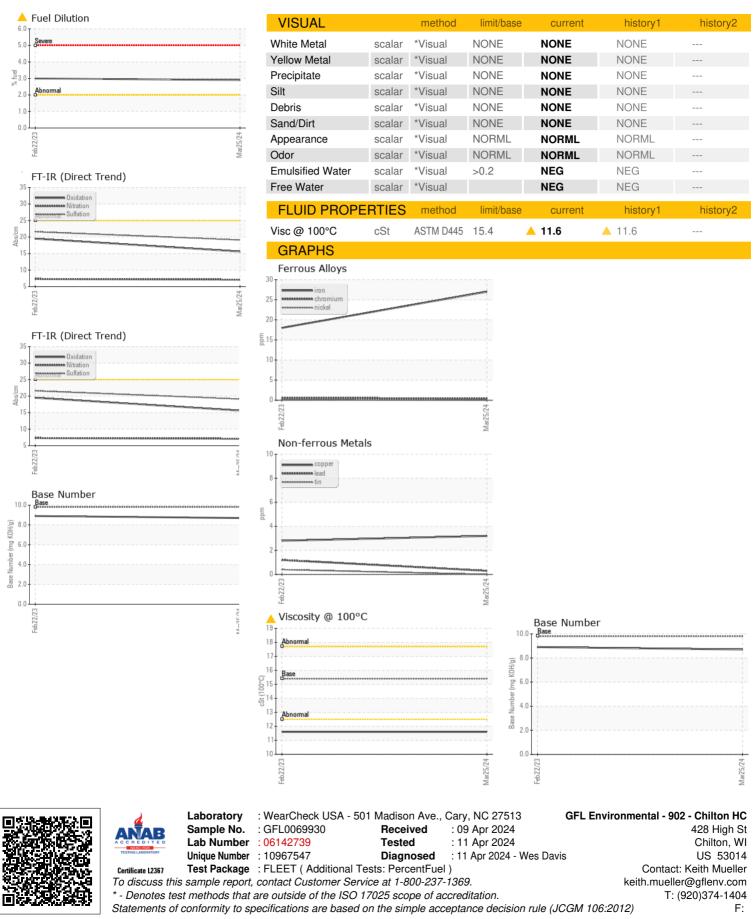
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0069930	GFL0069940	
Sample Date		Client Info		25 Mar 2024	22 Feb 2023	
Machine Age	mls	Client Info		225718	215790	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	27	18	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	5	
Lead	ppm	ASTM D5185m	>40	<1	1	
Copper	ppm	ASTM D5185m	>330	3	3	
Tin	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	12	86	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	47	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm	ASTM D5185m	1010	928	497	
Calcium	ppm	ASTM D5185m	1070	1305	1598	
Phosphorus	ppm	ASTM D5185m	1150	1058	739	
Zinc	ppm	ASTM D5185m	1270	1207	943	
Sulfur	ppm	ASTM D5185m	2060	3525	2727	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	
Sodium	ppm	ASTM D5185m		1	3	
Potassium	ppm	ASTM D5185m	>20	1	<1	
Fuel	%	ASTM D3524	>2.0	<u> </u>	▲ 3.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	
Nitration	Abs/cm	*ASTM D7624		7.1	7.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	21.6	
FLUID DEGRAD		method	limit/base	current	history1	history2
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Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	19.5	
Oxidation Base Number (BN)			>25			



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Contact/Location: See also GFL903 - Keith Mueller - GFL902