

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 425061-402314

Component Diesel Engine

Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

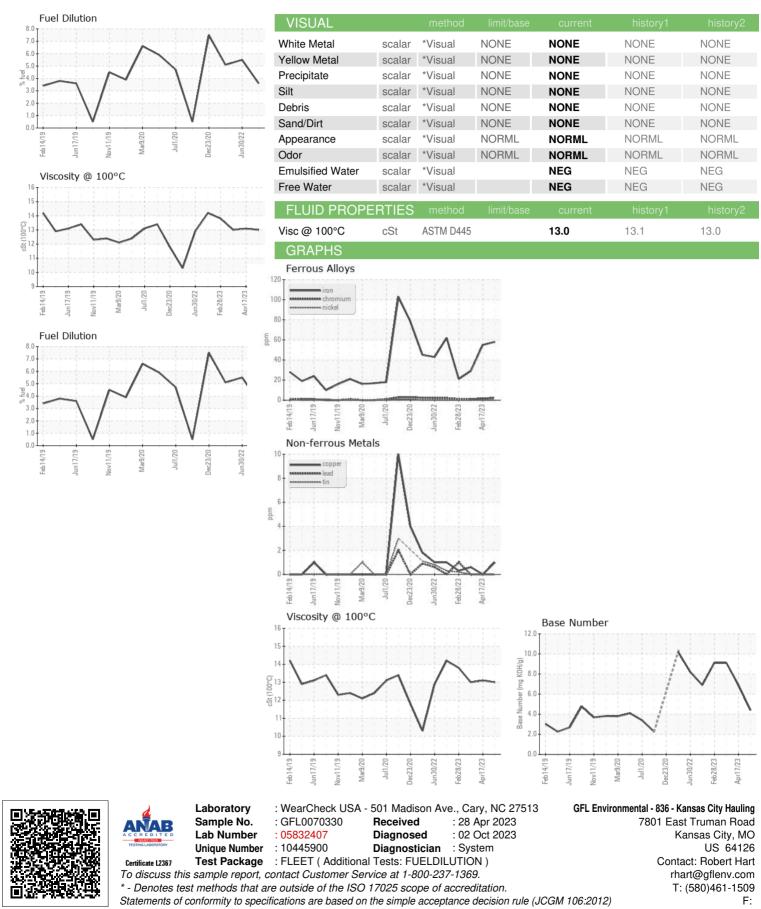
Fluid Condition

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

		eb2019 Jun2019	Nov2019 Mar2020 J	ul2020 Dec2020 Jun2022 Feb2023	Apr2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0070330	GFL0070339	GFL0070198
Sample Date		Client Info		25 Apr 2023	17 Apr 2023	20 Mar 2023
Machine Age	hrs	Client Info		23632	23556	23303
Oil Age	hrs	Client Info		600	300	300
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		58	55	29
Chromium	ppm	ASTM D5185m		2	2	1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		7	7	3
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		1	0	<1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		56	61	54
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m		910	977	873
Calcium	ppm	ASTM D5185m		1004	1090	1052
Phosphorus	ppm	ASTM D5185m		963	1010	910
Zinc	ppm	ASTM D5185m		1194	1301	1148
Sulfur	ppm	ASTM D5185m		3203	0170	2929
	ppm			5205	3173	2929
CONTAMINAN		method	limit/base	current	history1	history2
CONTAMINAN			limit/base			
CONTAMINAN Silicon	TS	method	limit/base	current	history1	history2
CONTAMINAN Silicon Sodium	TS ppm	method ASTM D5185m	limit/base	current 6	history1 6	history2 5
CONTAMINAN Silicon Sodium	TS ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 6 7	history1 6 6	history2 5 4
CONTAMINAN Silicon Sodium Potassium	TS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base limit/base	current 6 7 0	history1 6 6 <1	history2 5 4 <1
CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	TS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524		Current 6 7 0 <1.0	history1 6 6 <1 <1.0	history2 5 4 <1 <1.0
CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	TS ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method		current 6 7 0 <1.0 current	history1 6 6 <1 <1.0 history1	history2 5 4 <1 <1.0 history2
CONTAMINAN Silicon Sodium Potassium Fuel	TS ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method		current 6 7 0 <1.0 current 2.9	history1 6 6 <1 <1.0 history1 2.6	history2 5 4 <1 <1.0 history2 1.7
CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	rs ppm ppm % % Abs/cm Abs/.1mm	methodASTM D5185mASTM D5185mASTM D5185mASTM D3524Method*ASTM D7844*ASTM D7624*ASTM D7415		current 6 7 0 <1.0 current 2.9 14.6	history1 6 6 <1	history2 5 4 <1 <1.0 history2 1.7 11.0
CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	rs ppm ppm % % Abs/cm Abs/.1mm	methodASTM D5185mASTM D5185mASTM D5185mASTM D3524Method*ASTM D7844*ASTM D7624*ASTM D7415	limit/base	Current 6 7 0 <1.0 current 2.9 14.6 27.3	history1 6 6 <1	history2 5 4 <1



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Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836