

OIL ANALYSIS REPORT

Sample Rating Trend

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Machine Id 4240 Component Diesel E Fluid PETRO

424045-402329 Component Diesel Engine

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117160	GFL0114044	GFL010978
Sample Date		Client Info		23 Apr 2024	21 Mar 2024	26 Feb 2024
Machine Age	hrs	Client Info		21950	21286	21641
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Chango
Sample Status				ABNORMAL	NORMAL	SEVERE
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	35	<1	1 03
Chromium	ppm	ASTM D5185m	>20	2	0	5
Nickel	ppm	ASTM D5185m	>5	1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	7	<1	6
Lead	ppm	ASTM D5185m	>40	2	0	9
Copper	ppm	ASTM D5185m	>330	2	0	4
Tin	ppm	ASTM D5185m	>15	1	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	7	5
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	63	56	59
Manganese	ppm	ASTM D5185m	0	1	0	1
Magnesium	ppm	ASTM D5185m	1010	882	939	891
Calcium	ppm	ASTM D5185m	1070	1104	1160	1037
Phosphorus	ppm	ASTM D5185m	1150	964	1059	932
Zinc	ppm	ASTM D5185m	1270	1182	1262	1174
Sulfur	ppm	ASTM D5185m	2060	3248	3765	2671
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	2	12
Sodium	ppm	ASTM D5185m		<u> </u>	<1	4
Potassium	ppm		>20	<u> </u>	0	3
Fuel	%	ASTM D3524	>3.0	2.1	0.4	11.1
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.1	1.7
Nitration	Abs/cm	*ASTM D7624	>20	8.0	4.7	16.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	17.4	31.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	13.7	36.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.7	4.7

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Contact/Location: GFL823,834,836,837,840 - Loyce Stewart - GFL836 Page 1 of 2



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method

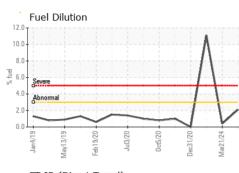
limit/base

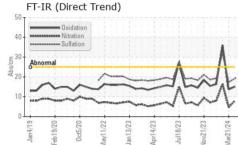
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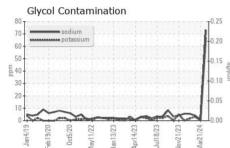
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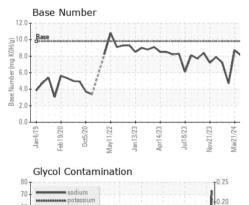
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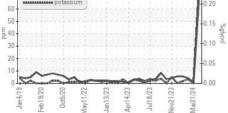
VISUAL

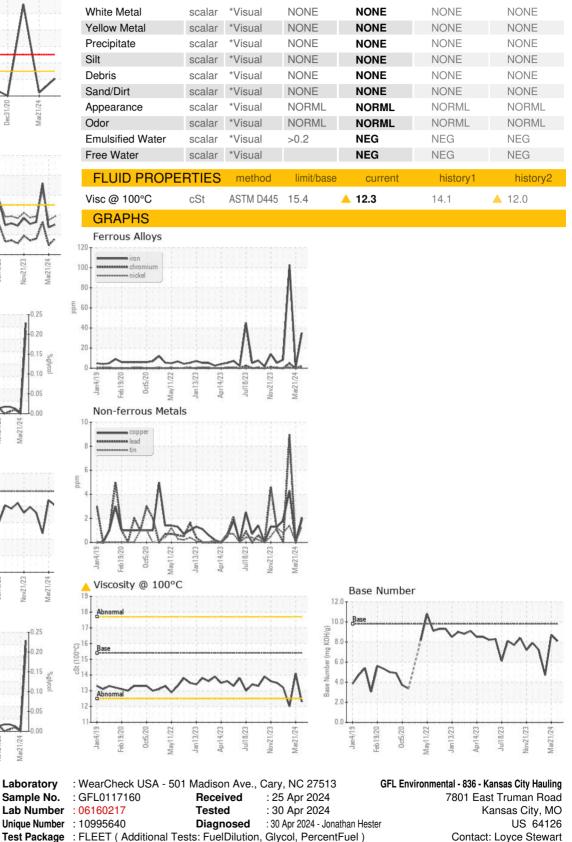












To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL836 [WUSCAR] 06160217 (Generated: 04/30/2024 13:11:44) Rev: 1

Certificate 12367

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