

OIL ANALYSIS REPORT

Sample Rating Trend

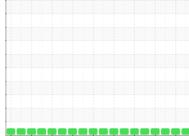
NORMAL



Machine Id 422090-29 Component

Diesel Engine

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

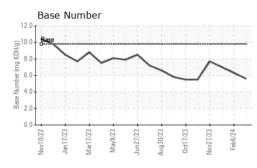


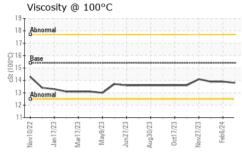


DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation Sa	ample Number		Client Info		GFL0099282	GFL0105548	GFL0105566
Resample at the next service interval to monitor. Sa	ample Date		Client Info		22 Feb 2024	06 Feb 2024	10 Jan 2024
Vear Ma	achine Age	hrs	Client Info		0	0	0
	il Age	hrs	Client Info		0	0	0
	il Changed		Client Info		N/A	Not Changd	Not Changd
	ample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT		method	limit/base	current	history1	history2
luid Condition							
The BN result indicates that there is suitable			WC Method	>3.0	<1.0	<1.0	<1.0
inality remaining in the oil. The condition of the	ater		WC Method	>0.2	NEG	NEG	NEG
il is suitable for further service. GI	lycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
Irc	on	ppm	ASTM D5185m	>120	23	11	8
Ch	hromium	ppm	ASTM D5185m	>20	<1	<1	<1
Ni	ckel	ppm	ASTM D5185m	>5	2	2	1
Tit	tanium	ppm	ASTM D5185m	>2	<1	0	<1
Si	lver	ppm	ASTM D5185m	>2	0	0	0
Al	uminum	ppm	ASTM D5185m	>20	7	3	1
Le	ad	ppm	ASTM D5185m		<1	<1	<1
Co	opper	ppm	ASTM D5185m	>330	10	4	4
Tir		ppm	ASTM D5185m		<1	<1	<1
Ve	anadium	ppm	ASTM D5185m		<1	<1	0
	admium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
Bc	oron	ppm	ASTM D5185m	0	124	93	129
Ba	arium	ppm	ASTM D5185m	0	0	0	0
M	olybdenum	ppm	ASTM D5185m		28	18	18
	anganese	ppm	ASTM D5185m		<1	<1	0
	-						
Ма	agnesium	maa					
	agnesium alcium	ppm ppm	ASTM D5185m	1010	209	163	129
Ca	alcium	ppm	ASTM D5185m ASTM D5185m	1010 1070	209 3010	163 2481	129 1954
Ca Pr	alcium nosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150	209 3010 1575	163 2481 1119	129 1954 924
Ca Pr Zir	alcium nosphorus	ppm	ASTM D5185m ASTM D5185m	1010 1070 1150 1270	209 3010	163 2481	129 1954
Ca Pr Ziu Su	alcium nosphorus nc ulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060	209 3010 1575 1803 5543	163 2481 1119 1456 4050	129 1954 924 1172 3461
Ca Pr Ziu Su	alcium nosphorus nc ulfur CONTAMINAN	ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1010 1070 1150 1270 2060 limit/base	209 3010 1575 1803 5543 current	163 2481 1119 1456 4050 history1	129 1954 924 1172 3461 history2
Ca Pr Zin Su Si	alcium nosphorus nc ulfur CONTAMINAN licon	ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base	209 3010 1575 1803 5543 current 9	163 2481 1119 1456 4050	129 1954 924 1172 3461 history2 4
Ca Pr Zin Su Su Sil So	alcium nosphorus nc ulfur CONTAMINAN licon pdium	ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25	209 3010 1575 1803 5543 current 9 3	163 2481 1119 1456 4050 history1 5 1	129 1954 924 1172 3461 history2 4 0
Ca Pr Ziu Su Su Si Si So Po	alcium nosphorus nc ulfur CONTAMINAN licon bdium btassium	ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 22060 <i>limit/base</i> >25 >20	209 3010 1575 1803 5543 current 9 3 23	163 2481 1119 1456 4050 history1 5 1 1	129 1954 924 1172 3461 history2 4 0 11
Ca Pr Zin Su Si Si Pc	alcium nosphorus nc ulfur CONTAMINAN licon bdium btassium	ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 <i>limit/base</i> >25 >20	209 3010 1575 1803 5543 current 9 3 23 current	163 2481 1119 1456 4050 history1 5 1 1 11 history1	129 1954 924 1172 3461 history2 4 0 11 history2
Ca Pr Ziu Su Su Su Su Su Su Su Su Su Su	alcium nosphorus nc ulfur CONTAMINAN licon bdium bdassium INFRA-RED bot %	ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >4	209 3010 1575 1803 5543 <u>current</u> 9 3 23 <u>current</u> 0.4	163 2481 1119 1456 4050 history1 5 1 1 11 11 history1 0.3	129 1954 924 1172 3461 history2 4 0 11 history2 0.2
Ca Pr Ziu Su Su Su Su Su Su Su Su Su Su Su Su Su	alcium nosphorus nc ulfur CONTAMINAN licon odium otassium INFRA-RED pot % tration	ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >4 >20	209 3010 1575 1803 5543 current 9 3 23 23 current 0.4 9.6	163 2481 1119 1456 4050 history1 5 1 11 11 history1 0.3 9.4	129 1954 924 1172 3461 history2 4 0 11 history2 0.2 8.2
Ca Pr Ziu Su Su Su Su Su Su Su Su Su Su Su Su Su	alcium nosphorus nc ulfur CONTAMINAN licon bdium bdassium INFRA-RED bot %	ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >4 >20	209 3010 1575 1803 5543 <u>current</u> 9 3 23 <u>current</u> 0.4	163 2481 1119 1456 4050 history1 5 1 1 11 11 history1 0.3	129 1954 924 1172 3461 history2 4 0 11 history2 0.2
Ca Pr Zin Su Si Si Si Si Si Si Si Si Si Si Si Si Si	alcium nosphorus nc ulfur CONTAMINAN licon odium otassium INFRA-RED pot % tration	ppm ppm ppm ppm TS ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7845	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >4 >20	209 3010 1575 1803 5543 current 9 3 23 23 current 0.4 9.6	163 2481 1119 1456 4050 history1 5 1 11 11 history1 0.3 9.4	129 1954 924 1172 3461 history2 4 0 11 history2 0.2 8.2
Ca Pr Ziu Su Su Su Po Ni Su	alcium nosphorus nc ulfur CONTAMINAN licon odium otassium INFRA-RED oot % tration ulfation	ppm ppm ppm ppm TS ppm ppm ppm ppm % Abs/cm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7845	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >4 >20 >30 limit/base	209 3010 1575 1803 5543 current 9 3 23 current 0.4 9.6 22.8	163 2481 1119 1456 4050 history1 5 1 1 11 0.3 9.4 21.3	129 1954 924 1172 3461 history2 4 0 11 history2 0.2 8.2 20.8

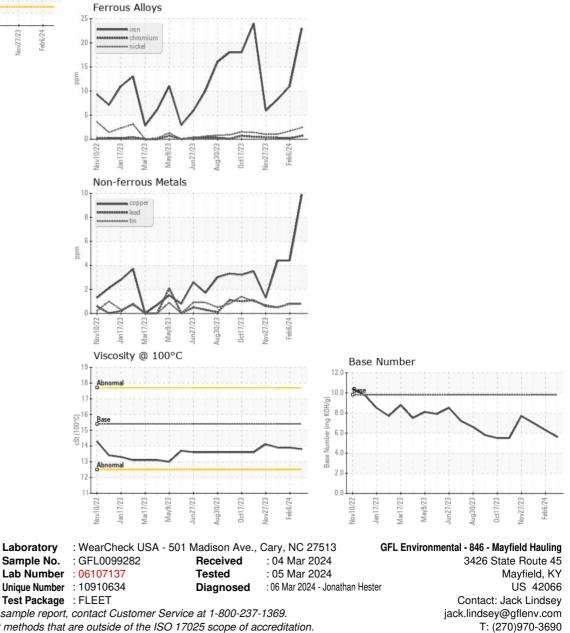


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.9
GRAPHS						





Certificate L2367 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)

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