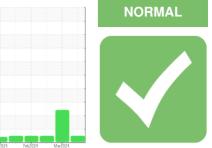


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MACK 812100 Component Diesel Engine

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

DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0116745	GFL0116784	GFL0109033
No corrective action is recommended at this time.	Sample Date		Client Info		24 Apr 2024	27 Mar 2024	06 Mar 2024
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		6898	6712	6548
Vear	Oil Age	hrs	Client Info		6898	6712	6548
Il component wear rates are normal.	Oil Changed		Client Info		Not Changd	N/A	N/A
ontamination	Sample Status				NORMAL	SEVERE	NORMAL
uel content negligible. There is no indication of ny contamination in the oil.	CONTAMINATIO	ON	method	limit/base	current	history1	history2
luid Condition	Water		WC Method	>0.2	NEG	NEG	NEG
he BN result indicates that there is suitable	Glycol		WC Method		NEG	NEG	NEG
kalinity remaining in the oil. The condition of the I is suitable for further service.	WEAR METALS	\$	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	7	10	9
	Chromium	ppm	ASTM D5185m	>20	0	<1	0
	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	2	0
	Lead	ppm	ASTM D5185m	>40	0	0	0
		ppm	ASTM D5185m	>330	<1	<1	0
		ppm	ASTM D5185m	>15	<1	<1	0
		ppm	ASTM D5185m		0	0	0
		ppm	ASTM D5185m		0	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	6	10	6
		ppm	ASTM D5185m		0	0	0
		ppm	ASTM D5185m	60	59	55	57
		ppm	ASTM D5185m		0	<1	0
			ASTM D5185m	1010	852	740	704
		ppm	ASTM D5185m	1070	1127	1015	1079
		ppm	ASTM D5185m	1150	990	812	782
		ppm			1193	1047	978
		ppm	ASTM D5185m ASTM D5185m	1270 2060	3378	2758	2298
	CONTAMINANT	ppm IS	method	limit/base		history1	history2
	.	ppm	ASTM D5185m		5	6	3
	Sodium	ppm	ASTM D5185m		1	2	2
	Potassium	ppm	ASTM D5185m	>20	<1	3	0
	Fuel	%	ASTM D3524	>3.0	0.2	▲ 9.1	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.4	0.2	0.6
			*ASTM D7624		6.7	8.2	8.4
			*ASTM D7415		17.8	18.3	18.6
	FLUID DEGRAD			limit/base		history1	history2
			*ASTM D7414	>25	12.8	15.2	13.7
			ASTN D7414	20	12.0	7.0	10.7

Base Number (BN) mg KOH/g ASTM D2896 9.8

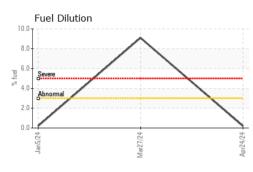
7.9

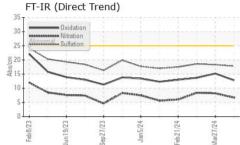
7.0

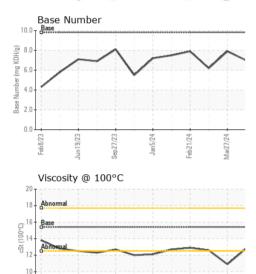
6.2



OIL ANALYSIS REPORT







Jan5/24 -

Feb21/24

Mar27/24

8

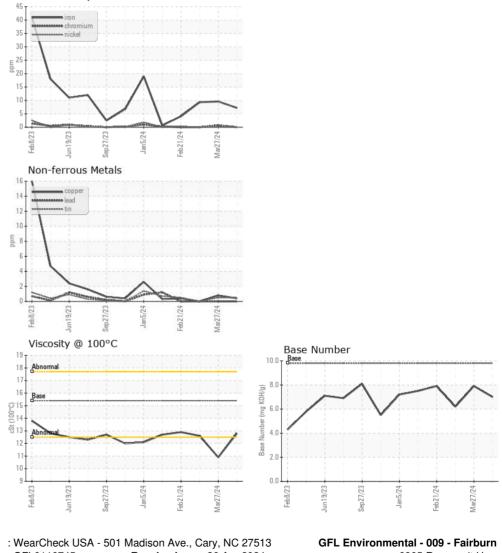
Feb 8/23

Jun 19/23

Sen 27/23

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	12.8	▲ 10.9	12.6
GRAPHS						

Ferrous Alloys



Laboratory Sample No. : GFL0116745 Received : 26 Apr 2024 6905 Roosevelt Hwy Lab Number : 06161220 Tested : 29 Apr 2024 Fairburn, GA US 30213 Unique Number : 10996643 Diagnosed : 29 Apr 2024 - Wes Davis Test Package : FLEET (Additional Tests: PercentFuel) Contact: Eric Jones Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. erjones@gflenv.com T: (678)630-9927 * - 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) E: