

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 429031-402477

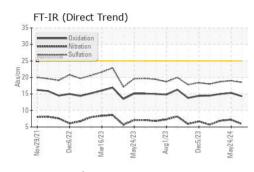
Diesel Engine

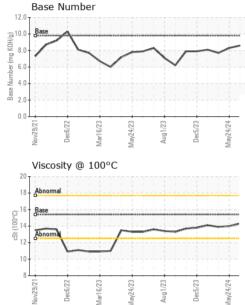
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	e current	history1	history2
commendation	Sample Number		Client Info		GFL0128573	GFL0123035	GFL0119415
sample at the next service interval to monitor.	Sample Date		Client Info		06 Jul 2024	24 May 2024	01 May 2024
ear	Machine Age	hrs	Client Info		11795	11646	11615
component wear rates are normal.	Oil Age	hrs	Client Info		42	0	11753
Contamination There is no indication of any contamination in the pil.	Oil Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINA	TION	method	limit/base	e current	history1	history2
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.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR META	LS	method	limit/base	e current	history1	history2
	Iron	ppm	ASTM D5185m	>120	3	6	7
	Chromium	ppm	ASTM D5185m		0	0	<1
	Nickel	ppm	ASTM D5185m		0	<1	1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m		1	3	3
	Lead	ppm	ASTM D5185m		0	0	2
	Copper	ppm	ASTM D5185m		<1	3	3
	Tin	ppm	ASTM D5185m		0	<1	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	2
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m	0	9	13	8
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	60	60	57
	Manganese	ppm	ASTM D5185m	0	0	<1	1
	Magnesium	ppm	ASTM D5185m	1010	945	925	1032
	Calcium	ppm	ASTM D5185m	1070	1124	1049	1168
	Phosphorus	ppm	ASTM D5185m	1150	1015	1003	1106
	Zinc	ppm	ASTM D5185m	1270	1180	1196	1323
	Sulfur	ppm	ASTM D5185m	2060	3432	3306	3762
	CONTAMINA	NTS	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	4	4
	Sodium	ppm	ASTM D5185m		3	4	5
	Potassium	ppm	ASTM D5185m	>20	0	2	2
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624		5.9	7.2	6.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	19.0	18.7
	FLUID DEGRA		method	limit/base	e current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	15.3	15.0

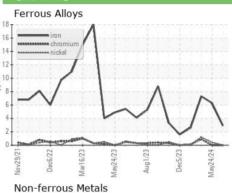


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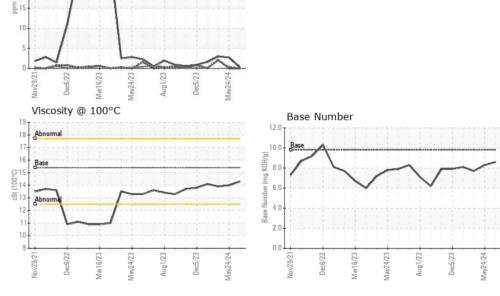


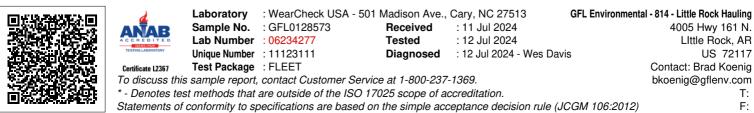
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.3	14.0	13.9
GRAPHS						



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