

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 425041-402302

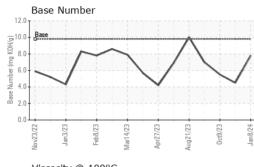
Component **Diesel Engine** Fluid

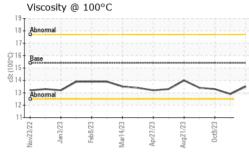
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		GFL0103470	GFL0103477	GFL009482
esample at the next service interval to monitor.	Sample Date		Client Info		08 Jan 2024	24 Nov 2023	09 Oct 2023
lear	Machine Age	hrs	Client Info		18398	18265	18078
l component wear rates are normal.	Oil Age	hrs	Client Info		133	946	759
ontamination	Oil Changed		Client Info		N/A	Changed	N/A
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
uid Condition	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
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	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	6	16	15
	Chromium	ppm	ASTM D5185m	>20	<1	<1	2
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	5	10	15
	Lead	ppm	ASTM D5185m	>40	0	<1	1
	Copper	ppm	ASTM D5185m	>330	1	3	4
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	5	0	2
	Barium	ppm	ASTM D5185m	0	0	2	10
	Molybdenum	ppm	ASTM D5185m	60	62	59	76
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	937	868	1149
	Calcium	ppm	ASTM D5185m	1070	1027	992	1203
	Phosphorus	ppm	ASTM D5185m	1150	977	892	1237
	Zinc	ppm	ASTM D5185m	1270	1216	1117	1458
	Sulfur	ppm	ASTM D5185m	2060	3062	2645	3738
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	10	11
	Sodium	ppm	ASTM D5185m		2	3	4
	Potassium	ppm	ASTM D5185m	>20	<1	2	3
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	9.4	8.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	21.2	19.4
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	17.9	16.2

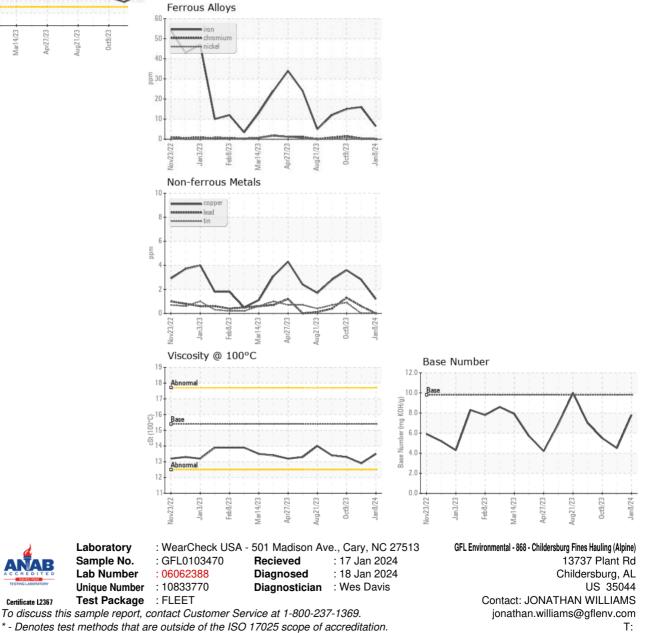


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.5	12.9	13.3
GRAPHS						



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



Certificate L2367

Submitted By: see also GFL868 - Chelsea Bryan

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