

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id MACK 812099 Component

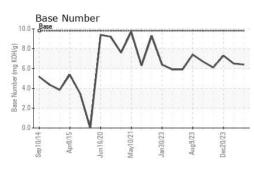
Diesel Engine Fluid

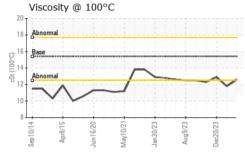
PETRO CANADA DUBON SHP 15W40 (9 GAL)

AGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
mmendation	Sample Number		Client Info	(GFL0109034	GFL0109078	GFL0086250
mple at the next service interval to monitor.	Sample Date		Client Info		05 Mar 2024	13 Feb 2024	20 Dec 2023
	Machine Age	hrs	Client Info	(6559	6414	5986
mponent wear rates are normal.	Oil Age	hrs	Client Info		0	0	5986
amination	Oil Changed		Client Info	I	N/A	N/A	N/A
here is no indication of any contamination in the	Sample Status				NORMAL	ABNORMAL	NORMAL
	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fluid Condition The BN result indicates that there is suitable Ikalinity remaining in the oil. The condition of the il is suitable for further service.	Fuel		WC Method	>3.0	<1.0	2 .3	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAI	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	8	14	11
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		3	1	2
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	10	16	64
	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		57	63	87
	Manganese	ppm	ASTM D5185m		0	0	3
	Magnesium	ppm	ASTM D5185m		736	705	640
	Calcium	ppm	ASTM D5185m	1070	1117	1038	1270
	Phosphorus	ppm	ASTM D5185m		883	806	773
	Zinc	ppm	ASTM D5185m		1111	1066	915
	Sulfur	ppm	ASTM D5185m		2820	2520	2886
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3	4	14
	Sodium	ppm	ASTM D5185m		2	0	11
	Potassium	ppm	ASTM D5185m	>20	2	4	4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.4	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624		7.5	9.1	8.9
	Sulfation	Abs/.1mm			18.1	19.2	19.2
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Ahs/1mm	*ASTM D7414	>25	13.1	15.5	16.3

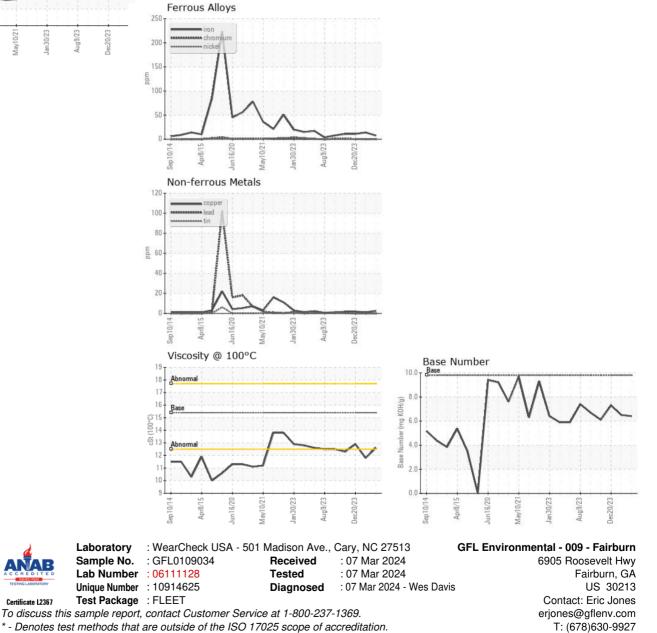


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	12.6	▲ 11.8	12.9
GRAPHS						



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

Certificate L2367

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