

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



MONTGOMERY MACK 920015-192536

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)



ANADA DUF	ON SHP 15W40 (- LTR)	12022 Dec202	Z Feb2023 Apr2023 Jur	2023 Sep2023 Nov2023 Jan2024	May2024	
	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0091269	GFL0118423	GFL0088007
o monitor.	Sample Date		Client Info		20 Jun 2024	05 Jun 2024	21 May 2024
	Machine Age	hrs	Client Info		15744	13617	13483
	Oil Age	hrs	Client Info		2261	134	1134
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
ation in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINATI	ON	method	limit/base	current	history1	history2
able	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
tion of the	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS	5	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	8	5	13
	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	3	4
	Lead	ppm	ASTM D5185m	>40	1	<1	<1
	Copper	ppm	ASTM D5185m	>330	8	3	<1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	3	0	2
	Barium	ppm	ASTM D5185m	0	1	0	0
	Molybdenum	ppm	ASTM D5185m	60	60	63	63
	Manganese	ppm	ASTM D5185m		1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	885	926	965
	Calcium	ppm	ASTM D5185m	1070	1038	1052	1061
	Phosphorus	ppm	ASTM D5185m	1150	990	1121	1007
	Zinc	ppm		1270	1202	1224	1239
	Sulfur	ppm	ASTM D5185m		2830	3246	3057
	CONTAMINAN	ΓS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	4	8
	Sodium	ppm	ASTM D5185m		4	2	4
	Potassium	ppm	ASTM D5185m	>20	3	2	0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.3	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	5.7	7.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.2	19.0
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.5	14.8

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

DIAGNOSIS Recommendation

Resample at the next service interva

Wear

All component wear rates are norma

Contamination

There is no indication of any contami oil.

Fluid Condition

The BN result indicates that there is alkalinity remaining in the oil. The con oil is suitable for further service.

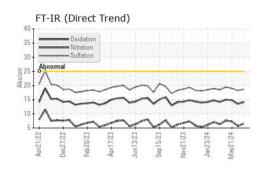
7.2

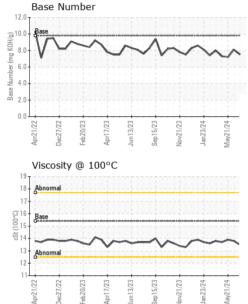
8.1

7.5



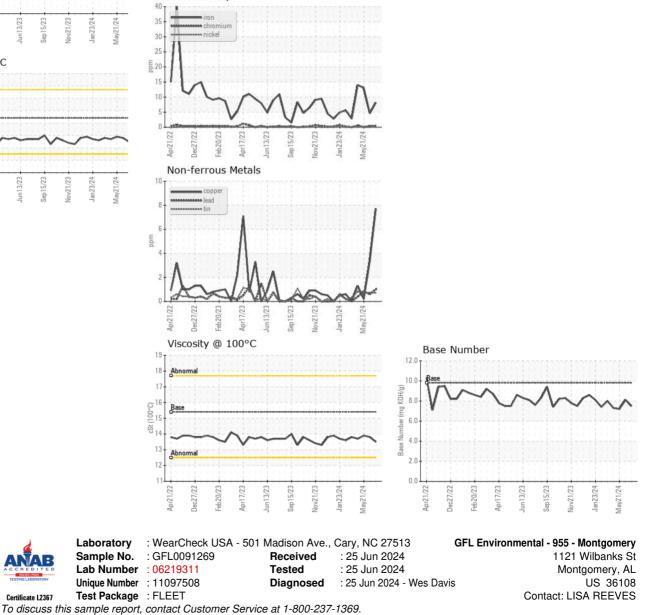
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.8	13.9
GRAPHS						

Ferrous Alloys



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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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Certificate 12367

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