

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 414048

Fluid

Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

SAMPLE INFOR	MATION	method				history2
Sample Number		Client Info		GFL0109133	GFL0109179	GFL010915
Sample Date		Client Info		13 Mar 2024	19 Feb 2024	01 Feb 202
Machine Age	hrs	Client Info		1744	1582	1469
Oil Age	hrs	Client Info		600	700	700
Oil Changed	1110	Client Info		Changed	Not Changd	Not Change
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	20.L	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>120	13	14	13
Chromium	ppm	ASTM D5185m	>20	0	<1	1
Nickel	ppm	ASTM D5185m	>5	0	1	1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	3	4	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	26	27	35
Tin	ppm	ASTM D5185m	>15	0	1	1
Vanadium	ppm	ASTM D5185m	210	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	62	86
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1004	941	1395
Calcium	ppm	ASTM D5185m	1070	1123	1016	1492
Phosphorus	ppm	ASTM D5185m	1150	1060	1063	1424
Zinc	ppm	ASTM D5185m	1270	1319	1243	1812
Sulfur	ppm	ASTM D5185m	2060	3306	3021	4333
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	8
Sodium	ppm	ASTM D5185m		3	3	2
Potassium	ppm	ASTM D5185m	>20	8	9	10
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.6	6.9	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.0	18.6
FLUID DEGRAI	DATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	14.8	14.4
Oxidation	AU3/.111111	710111107414	~25	13.0	1 1.0	1 - 1 - 1 - 1

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

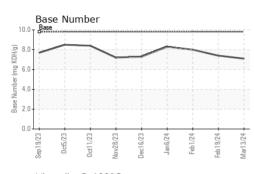
There is no indication of any contamination in the oil.

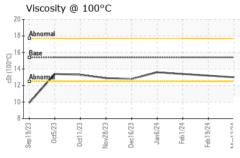
Fluid Condition

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

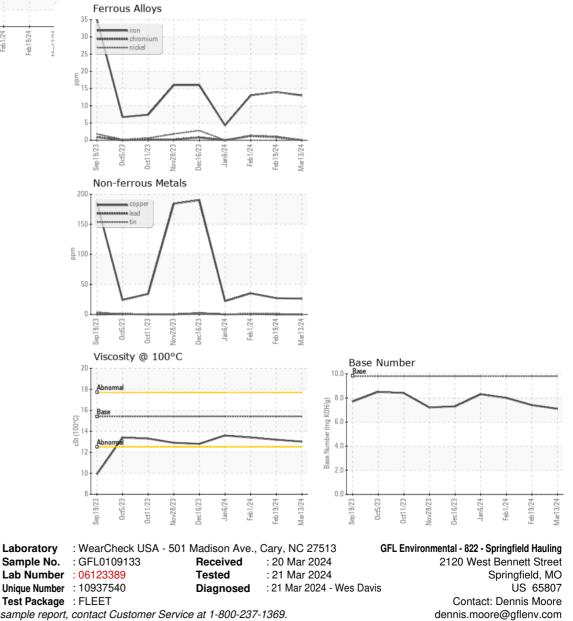


OIL ANALYSIS REPORT





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	13.0	13.2	13.4
GRAPHS						





 Certificate L2367
 Test Package
 : FLEET

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 der

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

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

F:

T: (417)403-3641