

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 811055

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (9 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

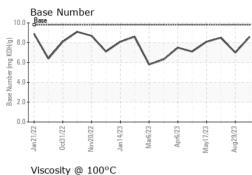
Fluid Condition

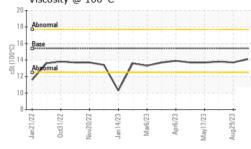
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

L)		Jan2022 Oct	2022 Nov2022 Jan2023	Mar2023 Apr2023 May2023	AugŽ023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088419	GFL0088417	GFL0088383
Sample Date		Client Info		14 Sep 2023	29 Aug 2023	30 Jun 2023
Machine Age	hrs	Client Info		5148	5498	5498
Oil Age	hrs	Client Info		3826	3826	3826
Oil Changed		Client Info		N/A	Diff Oil	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	4	16	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
_ead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	3	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	56	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	988	896	957
Calcium	ppm	ASTM D5185m		1116	1056	1113
Phosphorus	ppm	ASTM D5185m	1150	1062	945	1005
Zinc	ppm	ASTM D5185m	1270	1292	1210	1249
Sulfur	ppm	ASTM D5185m	2060	3804	3113	3641
CONTAMINAN	ITS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	4
Sodium	ppm	ASTM D5185m	00	1	2	1
Potassium	ppm	ASTM D5185m	>20	<1	0	2
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>3	0	0.7	0.3
Nitration	Abs/cm	*ASTM D7624		6.4	8.4	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.6	19.2
FLUID DEGRA			limit/base		history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	15.8	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	7.0	8.5

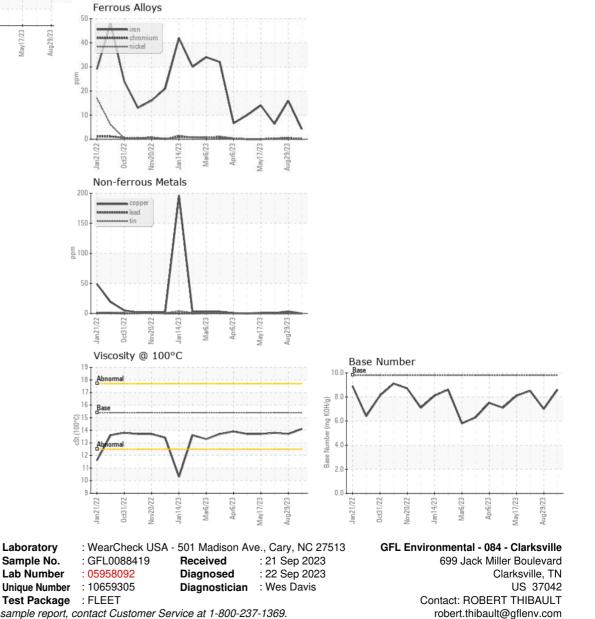


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.1	13.7	13.8
GRAPHS						





Certificate 12367 Test Package : FLEET To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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