

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 926053-377

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (----

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.

AL)		Mar2022 Ma	r2022 Apr2022 Aug2022	Dec2022 Apr2023 May2023 Jun20	23 Jul2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087848	GFL0081139	GFL0081145
Sample Date		Client Info		03 Jul 2023	13 Jun 2023	17 May 2023
Machine Age	hrs	Client Info		162908	26344	26212
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	8	24
Chromium	ppm	ASTM D5185m	>20	1	1	4
Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	3	8
Lead	ppm	ASTM D5185m	>40	<1	1	0
Copper	ppm	ASTM D5185m	>330	1	<1	1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	3	18
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	61	61
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	976	1037	970
Calcium	ppm	ASTM D5185m	1070	1062	1140	1100
Phosphorus	ppm	ASTM D5185m	1150	997	1064	1049
Zinc	ppm	ASTM D5185m	1270	1234	1358	1281
Sulfur	ppm	ASTM D5185m	2060	3598	3934	3698
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	7
	ppm ppm	ASTM D5185m ASTM D5185m	>25	5 4	4 2	7 4
Silicon						
Silicon Sodium	ppm	ASTM D5185m		4	2	4
Silicon Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m	>20	4 4	2 2	4 1
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base	4 4 current	2 2 history1	4 1 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >3 >20	4 4 current 0.5	2 2 history1 0.3	4 1 history2 0.4
Silicon Sodium Potassium INFRA-RED Soot % Nitration	% Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20	4 4 current 0.5 6.8	2 2 history1 0.3 5.9	4 1 history2 0.4 6.8
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30	4 4 current 0.5 6.8 19.4	2 2 history1 0.3 5.9 18.5	4 1 history2 0.4 6.8 19.4

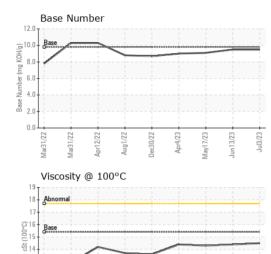


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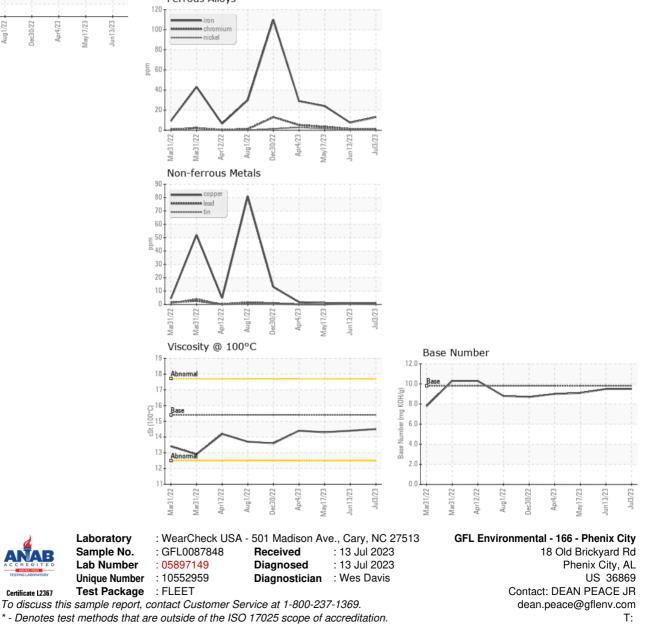
Mar31/22 Apr12/22

OIL ANALYSIS REPORT



Aug1/22 -

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	14.5	14.4	14.3
GRAPHS						
Ferrous Alloys						



* - 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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