

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- 0

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.

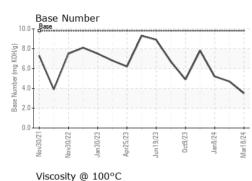
Fluid Condition

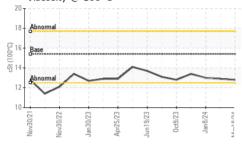
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0110570	GFL0110611	GFL0100224	
Sample Date		Client Info		18 Mar 2024	07 Feb 2024	08 Jan 2024	
Machine Age	mls	Client Info		454689	21966	440923	
Oil Age	mls	Client Info		600	200	440923	
Oil Changed		Client Info		Changed	Not Changd	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	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	12	7	5	
Chromium	ppm	ASTM D5185m	>20	<1	<1	0	
Nickel	ppm	ASTM D5185m	>4	2	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	<1	
Lead	ppm	ASTM D5185m	>40	1	1	0	
Copper	ppm	ASTM D5185m	>330	3	1	<1	
Tin	ppm	ASTM D5185m	>15	2	<1	0	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	3	<1	3	
Barium	ppm	ASTM D5185m	0	1	0	0	
Volybdenum	ppm	ASTM D5185m	60	58	59	54	
Manganese	ppm	ASTM D5185m	0	1	0	0	
Magnesium	ppm	ASTM D5185m	1010	888	986	946	
Calcium	ppm	ASTM D5185m	1070	1086	1171	1090	
Phosphorus	ppm	ASTM D5185m	1150	909	1040	992	
Zinc	ppm	ASTM D5185m	1270	1155	1250	1244	
Sulfur	ppm	ASTM D5185m	2060	2683	2953	3126	
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	4	3	
Sodium	ppm	ASTM D5185m		2	3	2	
Potassium	ppm	ASTM D5185m	>20	2	0	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.1	9.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	20.6	20.1	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
	AL / 4		05		4 = 0	10.1	
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	15.8	16.1	

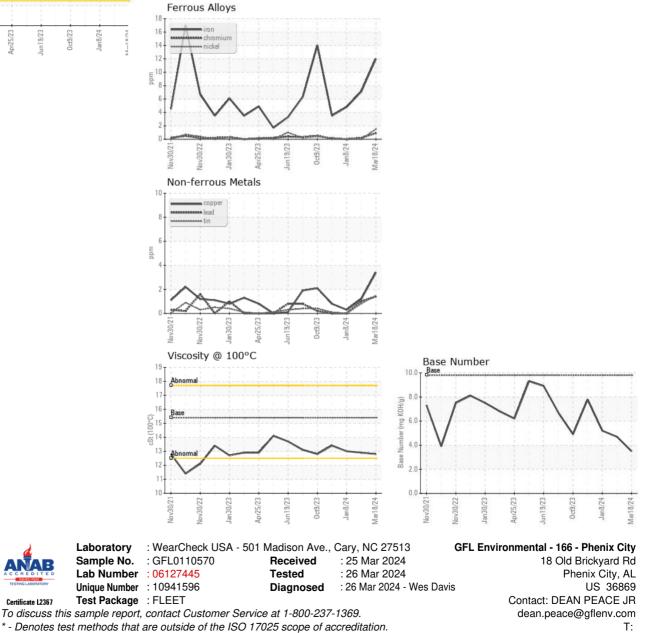


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	12.8	12.9	13.0
GRAPHS						



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



Certificate L2367

Submitted By: DARRIN WRIGHT

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