

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL

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.

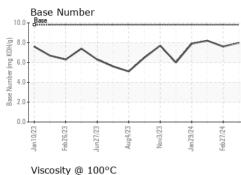
Fluid Condition

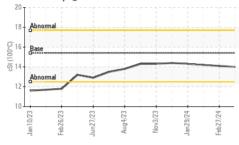
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)						
SAMPLE INFORM	MATION	Janžoza Fe	limit/base	e current	history1	history2
Sample Number	VII	Client Info		GFL0099263	GFL0078314	GFL0078300
Sample Date		Client Info		19 Mar 2024	27 Feb 2024	20 Feb 2024
Machine Age	hrs	Client Info		2784	2653	2612
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1 Million and	Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	e 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 METALS	S	method	limit/base	e current	history1	history2
Iron	ppm	ASTM D5185m	>110	10	8	7
Chromium	ppm	ASTM D5185m	>4	1	0	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m		5	3	3
Lead	ppm	ASTM D5185m	>45	1	0	0
Copper	ppm	ASTM D5185m		2	<1	1
Tin	ppm	ASTM D5185m	>4	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	e current	history1	history2
Boron	ppm	ASTM D5185m	0	5	5	6
Barium	ppm	ASTM D5185m		2	0	<1
Molybdenum	ppm	ASTM D5185m	60	83	64	60
Manganese	ppm			1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1216	1162	893
Calcium	ppm	ASTM D5185m	1070	1408	1283	1041
Phosphorus	ppm	ASTM D5185m	1150	1252	1259	991
Zinc	ppm	ASTM D5185m	1270	1508	1533	1148
Sulfur	ppm	ASTM D5185m		3921	3811	3177
CONTAMINAN	ITS	method	limit/base	e current	history1	history2
Silicon	ppm	ASTM D5185m	>30	8	4	6
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	6	3	5
INFRA-RED		method	limit/base	e current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624		6.8	7.7	6.7
Sulfation	Abs/.1mm	*ASTM D7415		18.5	19.3	18.5
FLUID DEGRAD	DATION	M method	limit/base	e current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	15.1	14.6
Base Number (BN)	mg KOH/g			8.0	7.6	8.2
Dase Number (Div)	ing non-g	AO INI DEGGO	5.0	0.0	1.0	0.2

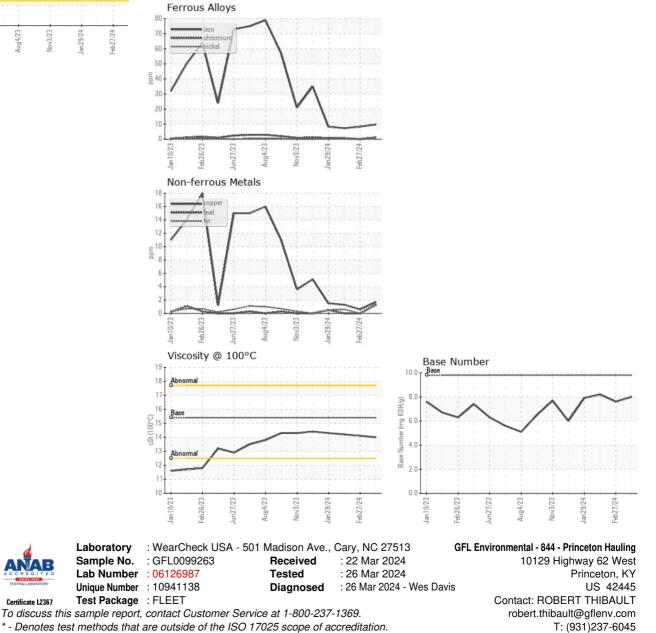


OIL ANALYSIS REPORT





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	14.0	14.1	14.2
GRAPHS						



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

Certificate L2367

É

F: