

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- GA

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sampled oil)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

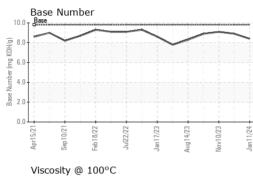
Fluid Condition

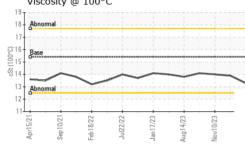
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Apr2021 Sep	2021 Feb2022 Jul20	22 Jan2023 Aug2023 Nov20	123 Jan2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0102771	GFL0102797	GFL0090480	
Sample Date		Client Info		11 Jan 2024	30 Nov 2023	10 Nov 2023	
Machine Age	hrs	Client Info		9083	8745	8594	
Dil Age	hrs	Client Info		489	8594	580	
Dil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Nater		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S		limit/base	-		history2	
		method			history1	· · · · · ·	
ron	ppm		>100	9	<1	7	
Chromium	ppm	ASTM D5185m		<1	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Fitanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m		1	2	2	
ead	ppm		>40	0	<1	0	
Copper	ppm	ASTM D5185m		<1	0	<1	
Гin	ppm		>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	5	8	1	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	58	60	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	897	904	991	
Calcium	ppm	ASTM D5185m	1070	1083	1044	1093	
Phosphorus	ppm	ASTM D5185m	1150	1004	1070	1042	
Zinc	ppm	ASTM D5185m	1270	1195	1268	1281	
Sulfur	ppm	ASTM D5185m	2060	2979	3226	3001	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	3	2	
Sodium	ppm	ASTM D5185m		2	<1	4	
Potassium	ppm	ASTM D5185m	>20	3	2	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.9	0.4	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	7.1	5.1	7.6	
induction	Abs/.1mm	*ASTM D7415	>30	19.4	17.5	19.7	
	AUS/.111111						
			limit/base		history1	history2	
Sulfation					history1 12.5	history2 14.4	

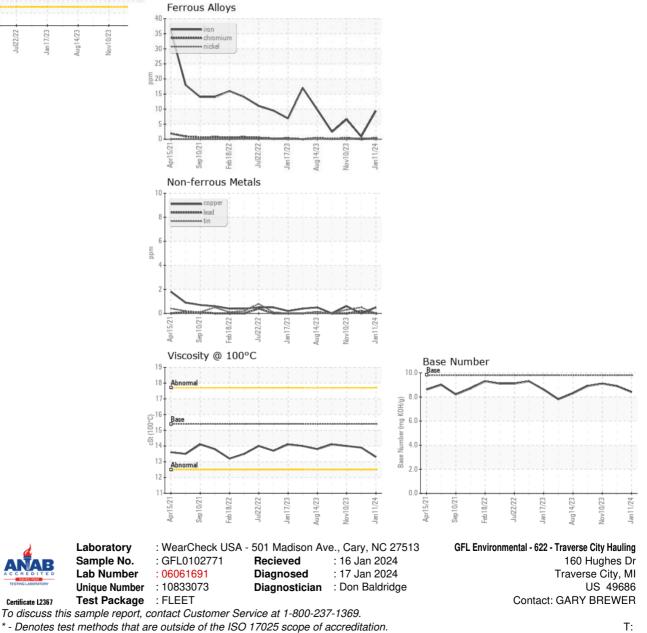


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.3	13.9	14.0
GRAPHS						



* - 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)

F:

Certificate L2367