

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



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

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.

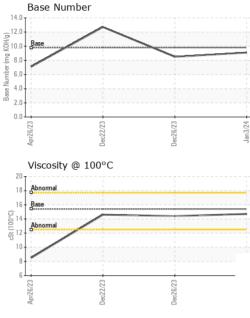
Fluid Condition

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

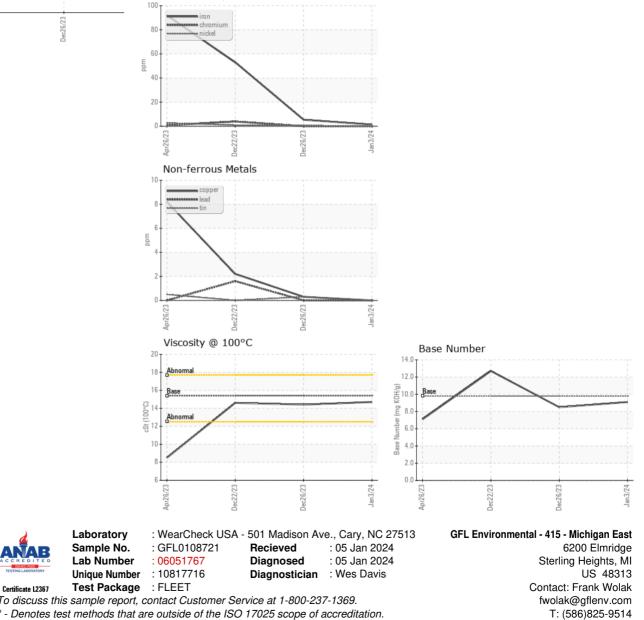
N SHP 15W40 (GAL)	Apr202	3 Dec2023	Dec2023 Ja	n2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108721	GFL0105682	GFL0105841
Sample Date		Client Info		03 Jan 2024	26 Dec 2023	22 Dec 2023
lachine Age	hrs	Client Info		23082	23817	23081
Dil Age	hrs	Client Info		23817	23081	0
Dil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
⁼ uel		WC Method	>3.0	<1.0	0.1	6.7
Vater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.10
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	1	5	53
Chromium	ppm	ASTM D5185m	>20	0	0	4
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Fitanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	5	5
ead	ppm	ASTM D5185m	>40	0	0	2
Copper	ppm		>330	0	<1	2
īn	ppm	ASTM D5185m	>15	0	<1	0
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	0	3	<1	21
Barium	ppm		0	0	0	0
Aolybdenum	ppm	ASTM D5185m	60	59	57	115
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	1010	1033	967	812
Calcium	ppm	ASTM D5185m	1070	1075	1092	985
Phosphorus	ppm	ASTM D5185m	1150	1084	1036	808
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	1349 3455	1219 3105	1068 3132
CONTAMINAN		method	limit/base		history1	history2
Silicon		ASTM D5185m	>25	4	3	▲ 30
Sodium	ppm ppm	ASTM D5185m	>23	0	0	▲ 1682
Potassium	ppm	ASTM D5185m	>20	1	<1	17
INFRA-RED	le le	method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>4	0	0.2	2.6
Nitration	Abs/cm	*ASTM D7644		4.2	5.2	17.3
Sulfation	Abs/.1mm	*ASTM D7024	>30	4.2 17.5	18.1	26.8
FLUID DEGRAI			limit/base		history1	history2
				Garront	, , , , , , , , , , , , , , , , , , ,	
Ovidation	Ahe/1mm	*ASTM D7/1/	<25	120	13.0	24.2
Dxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	12.9 9.1	13.9 8.5	24.2 12.7



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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	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	14.4	14.6
GRAPHS						
Ferrous Alloys						



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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