

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

429059-402467

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

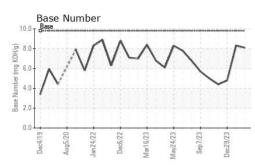
Fluid Condition

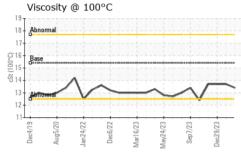
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)							
,		sc2019 Aug2	020 Jan2022 Dec2022	Mar2023 May2023 Sep2023	Dec2023	history O	
SAMPLE INFORM	VIATION		limit/base	current	history1	history2	
Sample Number		Client Info		GFL0099279	GFL0105554	GFL0105571	
Sample Date		Client Info		08 Feb 2024	22 Jan 2024	29 Dec 2023	
Machine Age	hrs	Client Info		600	0	0	
Dil Age	hrs	Client Info		600	0	0	
Dil Changed		Client Info		Changed	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Vater		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>110	16	12	46	
Chromium	ppm	ASTM D5185m	>4	<1	<1	2	
Nickel	ppm	ASTM D5185m	>2	<1	0	0	
Fitanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	3	3	9	
ead	ppm	ASTM D5185m	>45	5	5	20	
Copper	ppm	ASTM D5185m	>85	<1	<1	2	
īn	ppm	ASTM D5185m	>4	<1	<1	<1	
/anadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	6	4	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Nolybdenum	ppm	ASTM D5185m	60	64	61	63	
Nanganese	ppm	ASTM D5185m	0	<1	<1	<1	
<i>l</i> agnesium	ppm	ASTM D5185m	1010	1144	953	1028	
Calcium	ppm	ASTM D5185m	1070	1341	1086	1322	
Phosphorus	ppm	ASTM D5185m	1150	1184	1046	1091	
Zinc	ppm	ASTM D5185m	1270	1534	1257	1379	
Sulfur	ppm	ASTM D5185m	2060	3630	3102	2847	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	4	4	7	
Sodium	ppm	ASTM D5185m		3	4	6	
Potassium	ppm	ASTM D5185m	>20	5	6	17	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.1	12.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.4	27.4	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2	
FLUID DEGRAD	DATION Abs/.1mm	method *ASTM D7414	limit/base	current 15.7	history1 15.5	25.8	

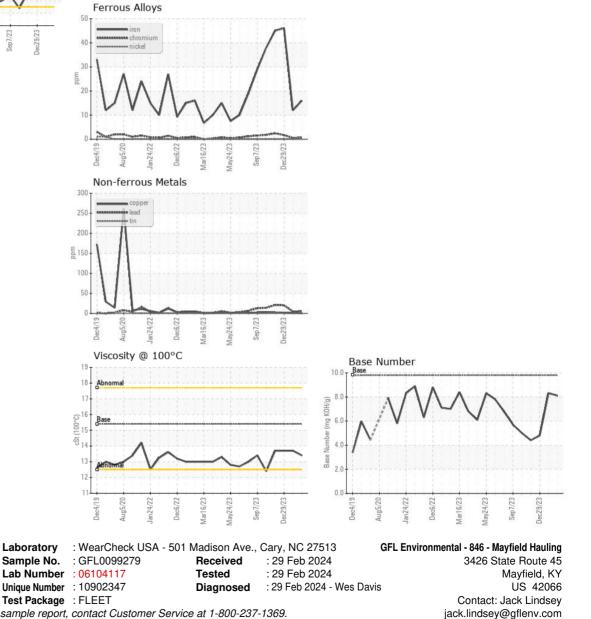


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.4	13.7	13.7
GRAPHS						





 Certificate L2367
 Test Package
 : FLEET

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - 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:

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