

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id **426143 - SW4621**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- G

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

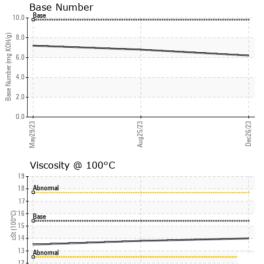
Fluid Condition

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

GAL) Mayb223 Augt2023 Dec2023						
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105494	GFL0089465	GFL0075361
Sample Date		Client Info		26 Dec 2023	25 Aug 2023	29 May 2023
Machine Age	hrs	Client Info		1294	445086	270559
Oil Age	hrs	Client Info		1294	445086	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	NC	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 METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	12	37
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	1
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m	>3	0	0	<1
	ppm	ASTM D5185m		2	0	4
	ppm	ASTM D5185m	>40	0	0	2
	ppm	ASTM D5185m		0	3	1
	ppm	ASTM D5185m	>15	0	0	<1
	ppm	ASTM D5185m		0	0	<1
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	0	0	0	2
	ppm	ASTM D5185m		4	0	0
	ppm	ASTM D5185m	60	44	40	56
	ppm	ASTM D5185m		0	<1	<1
	ppm	ASTM D5185m	1010	9	73	696
	ppm	ASTM D5185m	1070	2402	2283	1568
Phosphorus	ppm	ASTM D5185m	1150 1270	1030	998	1092 1362
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	2060	1120 3411	1199 3602	3386
CONTAMINANT		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>25	6	9	13
	ppm	ASTM D5185m	<i>></i> 20	0	0	2
_	ppm	ASTM D5185m	>20	0	0	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	1.3
	Abs/cm	*ASTM D7624	>20	10.9	9.4	15.0
	Abs/.1mm	*ASTM D7415		21.9	19.9	26.9
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.0	22.0
	mg KOH/g	ASTM D2896	9.8	6.2	6.8	7.2
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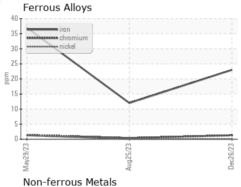
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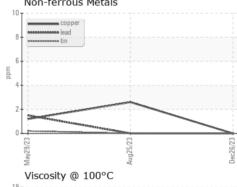


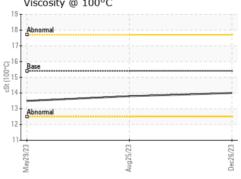
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

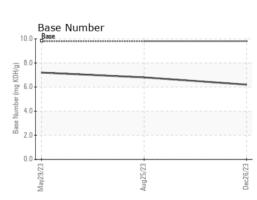
		method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.8	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10809179

Test Package : FLEET

: GFL0105494 : 06048571

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 02 Jan 2024 : 03 Jan 2024 Diagnostician : Don Baldridge GFL Environmental - 983 - Sugar Land Hauling

16011 West Belfort Street Sugar Land, TX US 77498 Contact: Gino Griego

ggriego@gflenv.com T: (720)999-0726

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)