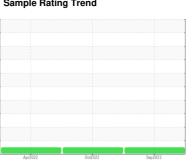


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **593M** Component **Diesel Engine**

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

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

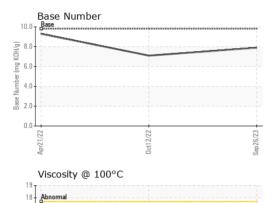
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

)N 3HP 13W40 (- GAL)	Apr2022 0cd2022 Sep2023				
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084983	GFL0059179	GFL0018479
Sample Date		Client Info		26 Sep 2023	12 Oct 2022	21 Apr 2022
Machine Age	hrs	Client Info		4197	3877	3802
Oil Age	hrs	Client Info		4197	3877	3802
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	9	9	32
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m		2	2	3
Lead	ppm	ASTM D5185m	>40	- <1	<1	<1
Copper	ppm	ASTM D5185m		5	2	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	>10	0	<1	<1
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	53	65
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1029	890	1042
Calcium	ppm	ASTM D5185m	1070	1124	1034	1184
Phosphorus	ppm	ASTM D5185m	1150	1064	863	1124
Zinc	ppm	ASTM D5185m	1270	1326	1196	1346
Sulfur	ppm	ASTM D5185m	2060	3040	2565	2797
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		4	2	4
Potassium	ppm	ASTM D5185m	>20	3	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.6	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	13.7	9.7	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	22.8	21.4
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9	18.6	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	7.1	9.3



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OIL ANALYSIS REPORT

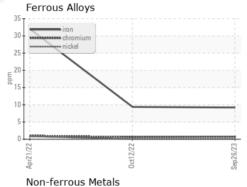


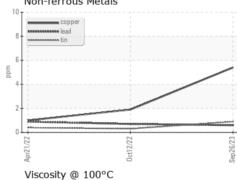
Oct12/22

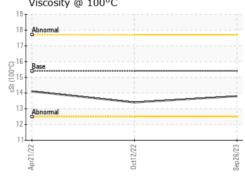
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

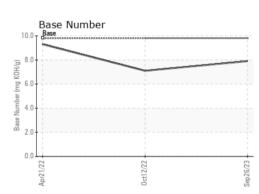
LLUID PROPE	RIIES	memoa			riistory i	riistory
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.4	14.1

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10670576 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0084983 : 05964025

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

Received Diagnosed

: 28 Sep 2023 : 29 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Belal Dgheish

bdgheish@gflenv.com T: (734)714-2340

* - 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)