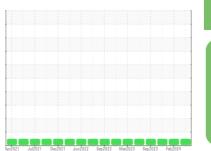


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
728056-8
Component
Diesel Engine
Fluid

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

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

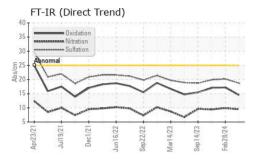
Fluid Condition

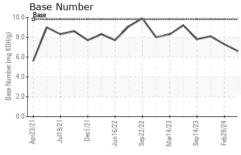
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

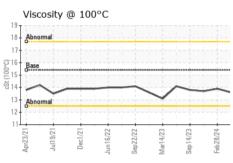
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0070929	GFL0058083	GFL0100171
Sample Date		Client Info		28 May 2024	28 Feb 2024	04 Dec 2023
Machine Age	hrs	Client Info		13868	13398	12821
Oil Age	hrs	Client Info		470	577	565
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
			>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	17	25	25
Chromium	ppm	ASTM D5185m	>5	1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	4	4	2
Lead	ppm	ASTM D5185m	>30	2	0	0
Copper	ppm	ASTM D5185m	>150	<1	<1	1
Tin	ppm	ASTM D5185m	>5	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	41	3	2
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	84	62	63
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	133	981	931
Calcium	ppm	ASTM D5185m	1070	2181	1052	1098
Phosphorus	ppm	ASTM D5185m	1150	1032	1026	1038
Zinc	ppm	ASTM D5185m	1270	1181	1310	1234
Sulfur	ppm	ASTM D5185m	2060	4165	3221	3033
CONTAMINAN'		method	limit/base	current	history1	history2
Silicon		ASTM D5185m		11	6	6
Sodium	ppm	ASTM D5165III	<i>></i> ∠0	2	6	3
Potassium		ASTM D5185m	>20	2	1	3
	ppm					
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.9	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	20.2	19.9
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	17.2	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	7.3	8.1
Dado Hambor (Bit)						



OIL ANALYSIS REPORT



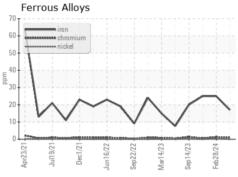




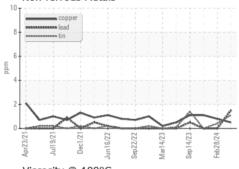
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

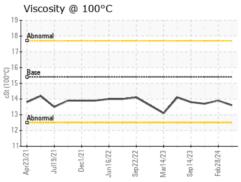
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.9	13.7

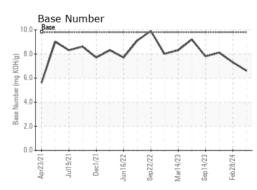
GRAPHS















Certificate 12367

Laboratory Sample No.

Lab Number : 06194783 Unique Number : 11056906 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0070929 Received : 29 May 2024 **Tested**

: 30 May 2024 Diagnosed : 31 May 2024 - Sean Felton

GFL Environmental - 657 - Charlottesville Hauling

5498 Richmond Road Troy, VA US 22974

Contact: Brian Ulickas

bulickas@gflenv.com

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)

Report Id: GFL657 [WUSCAR] 06194783 (Generated: 05/31/2024 16:14:31) Rev: 1

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