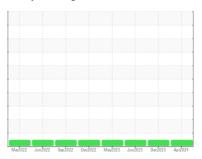


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
927059
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (10 GAL)

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

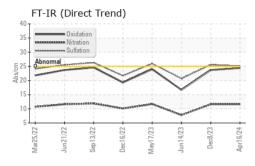
Fluid Condition

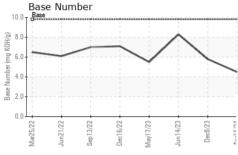
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

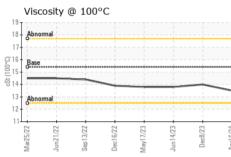
N SHP 15W40 (10	J U.J (=)					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095348	GFL0095374	GFL0076923
Sample Date		Client Info		16 Apr 2024	08 Dec 2023	14 Jun 2023
Machine Age	hrs	Client Info		16785	16194	15629
Oil Age	hrs	Client Info		591	572	124
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		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	>120	11	12	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	2	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	2	<1
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	7	14
Barium	ppm	ASTM D5185m	0	<1	0	<1
Molybdenum	ppm	ASTM D5185m	60	59	61	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	958	1018	935
Calcium	ppm	ASTM D5185m	1070	1115	1158	1309
Phosphorus	ppm	ASTM D5185m	1150	992	1061	1061
Zinc	ppm	ASTM D5185m	1270	1266	1299	1329
Sulfur	ppm	ASTM D5185m	2060	2933	2982	3805
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	4
Sodium	ppm	ASTM D5185m		10	10	8
Potassium	ppm	ASTM D5185m	>20	2	2	3
		method	limit/base	current	history1	history2
INFRA-RED			4	0.2	0.0	0.4
	%	*ASTM D7844	>4	0.2	0.3	0.1
INFRA-RED Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624		11.6	11.6	7.8
Soot %			>20			
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	11.6	11.6	7.8
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	11.6 25.1	11.6 25.6	7.8 20.7

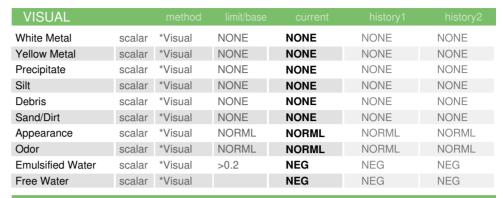


OIL ANALYSIS REPORT



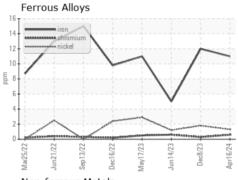


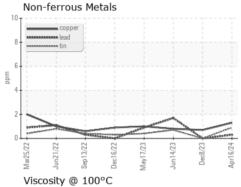


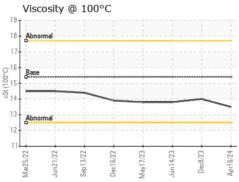


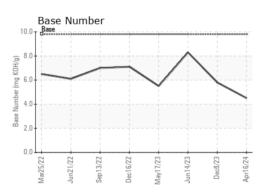
FLUID PROP	ERITES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.0	13.8

GRAPHS













Laboratory Sample No.

: GFL0095348 Lab Number : 06156626 Unique Number : 10992049

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

Received : 22 Apr 2024 **Tested** : 23 Apr 2024 Diagnosed

: 23 Apr 2024 - Wes Davis

GFL Environmental - 930 - Mosinee HC 1372 State Highway 34

MOSINEE, WI US 54455

Contact: Kirk Koss

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

T: (715)571-2784