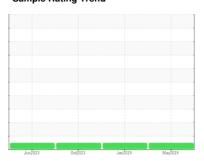


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
726057
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

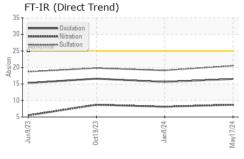
Fluid Condition

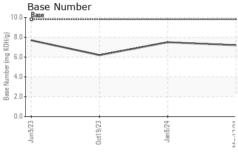
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

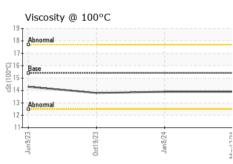
N 3HP 13W40 (- GAL)	Junzoz	3 0012023	OBIECET IVI	dy2.024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0097844	GFL0103594	GFL0097838	
Sample Date		Client Info		17 May 2024	08 Jan 2024	19 Oct 2023	
Machine Age	hrs	Client Info		17932	17932	17932	
Oil Age	hrs	Client Info		520	495	600	
Oil Changed		Client Info		N/A	N/A	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	
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	35	6	6	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	1	
_ead	ppm	ASTM D5185m	>40	1	<1	<1	
Copper	ppm	ASTM D5185m	>330	2	<1	<1	
Γin	ppm	ASTM D5185m	>15	2	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	2	1	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	66	54	57	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1011	869	950	
Calcium	ppm	ASTM D5185m	1070	1140	950	1043	
Phosphorus	ppm	ASTM D5185m	1150	992	976	975	
Zinc	ppm	ASTM D5185m	1270	1297	1129	1241	
Sulfur	ppm	ASTM D5185m	2060	3116	3105	2836	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	3	4	
Sodium	ppm	ASTM D5185m		4	<1	3	
Potassium	ppm	ASTM D5185m	>20	3	2	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.6	0.3	0.3	
Vitration	Abs/cm	*ASTM D7624	>20	8.7	8.1	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.1	19.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.6	16.6	
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	7.5	6.2	
	9						



OIL ANALYSIS REPORT



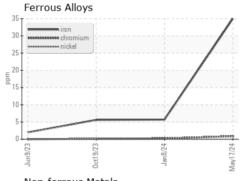


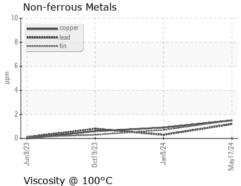


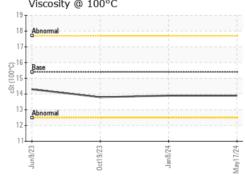
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

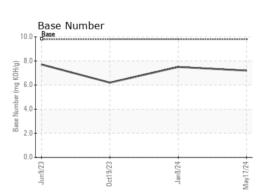
FLUID PROP	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	13.8

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06189980 Unique Number : 11046732

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0097844 Received : 23 May 2024

Tested : 25 May 2024 Diagnosed : 29 May 2024 - Don Baldridge

GFL Environmental - 958 - Tri County HC Morton

1090 W. Jefferson St. Morton, IL US 61550

Contact: Bryan Link blink@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: GFL958 [WUSCAR] 06189980 (Generated: 05/29/2024 14:44:55) Rev: 1

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