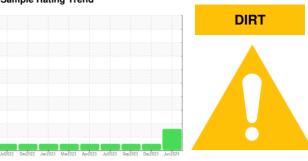


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id
4572M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (5 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

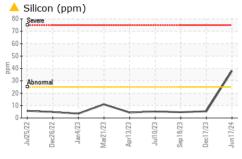
Fluid Condition

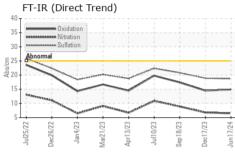
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

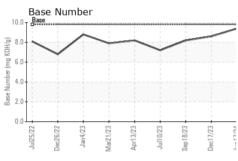
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124751	GFL0097735	GFL0087262
Sample Date		Client Info		17 Jun 2024	17 Dec 2023	18 Sep 2023
Machine Age	hrs	Client Info		3457	3004	2511
Oil Age	hrs	Client Info		453	493	598
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	3	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	18	9	19
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	2	3
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm		>15	<1	0	<1
Vanadium	ppm	ASTM D5185m	>10	0	<1	0
Cadmium		ASTM D5185m		0	0	0
	ppm		limit/base			
ADDITIVES		method		current	history1	history2
Boron	ppm	ASTM D5185m	0	5	3	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	56	63
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1084	910	908
Calcium	ppm	ASTM D5185m	1070	1242	1058	1091
Phosphorus	ppm	ASTM D5185m	1150	1183	1066	1046
Zinc	ppm	ASTM D5185m	1270	1453	1257	1279
Sulfur	ppm	ASTM D5185m	2060	4310	3107	3296
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>25	▲ 38	5	5
Sodium	ppm	ASTM D5185m		3	2	6
Potassium	ppm	ASTM D5185m	>20	6	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.8	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.9	20.8
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	14.5	17.4
	mg KOH/g	ASTM D2896	9.8	9.4	8.6	8.2
Base Number (BN)	IIIO NUM/O	AO I IVI LIZOMO	7.0	9.4	0.0	0./

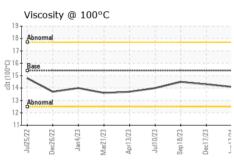


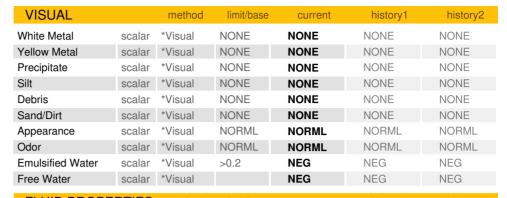
OIL ANALYSIS REPORT





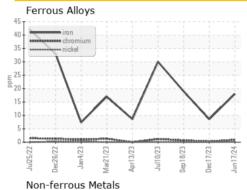


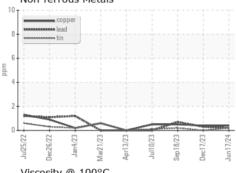


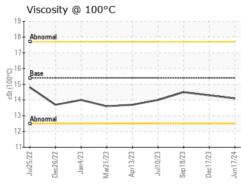


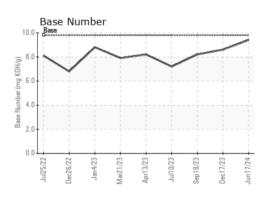
FLUID PHOP	ELLIES	memod	IIIIII/Dase	Current	HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.3	14.5

GRAPHS













Certificate 12367

Laboratory Sample No. : GFL0124751 Lab Number : 06224368 Unique Number : 11102565

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024 **Tested**

: 02 Jul 2024 Diagnosed

: 02 Jul 2024 - Jonathan Hester

7811 Chubb Rd NORTHVILLE, MI US 48168 Contact: John Nahal jnahal@gflenv.com

GFL Environmental - 405 - Arbor Hills

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)

Report Id: GFL405 [WUSCAR] 06224368 (Generated: 07/02/2024 10:27:31) Rev: 1

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