

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id **4553M** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (36 QTS)





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

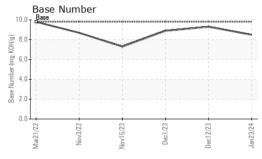
Fluid Condition

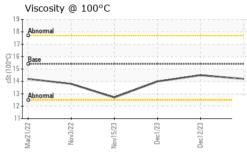
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	. ,	Mar2022	Nov2022 Nov2023	Dec2023 Dec2023	Jan2024		
SAMPLE INFO	ORMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0109969	GFL0104223	GFL0104381	
Sample Date		Client Info		23 Jan 2024	12 Dec 2023	01 Dec 2023	
Machine Age	hrs	Client Info		20915	20581	20525	
Oil Age	hrs	Client Info		600	56	20525	
Oil Changed		Client Info		Changed	N/A	Changed	
Sample Status				NORMAL	ATTENTION	ABNORMAL	
CONTAMINA	ATION	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 META	ALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	21	25	8	
Chromium	ppm	ASTM D5185m	>5	<1	1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1	
Titanium	ppm	ASTM D5185m		<1	0	<1	
Silver		ASTM D5185m	>2	0	0	0	
	ppm	ASTM D5185m	>15	5		∆ 18	
Aluminum	ppm				5		
Lead	ppm	ASTM D5185m	>25	<1	0	<1	
Copper	ppm		>100	0	<1	<1	
Tin	ppm	ASTM D5185m	>4	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	5	55	
Barium	ppm	ASTM D5185m	0	<1	0	0	
Molybdenum	ppm	ASTM D5185m	60	55	56	44	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	832	898	516	
Calcium	ppm	ASTM D5185m	1070	919	995	1779	
Phosphorus	ppm	ASTM D5185m	1150	927	1000	1027	
Zinc	ppm	ASTM D5185m	1270	1124	1257	1179	
Sulfur	ppm	ASTM D5185m	2060	2580	2962	3680	
CONTAMINA	ANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	11	4	18	
Sodium	ppm	ASTM D5185m		63	4 92	0	
Potassium	ppm	ASTM D5185m	>20	8	11	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	1.2	1.4	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.5	11.0	5.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	22.2	17.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	18.7	13.7	
Base Number (BI		ASTM D2896		8.5	9.3	8.9	
Dage Halliber (DI	-) mg Norrg	7.0 TWI D2000	0.0	0.5	0.0	0.0	



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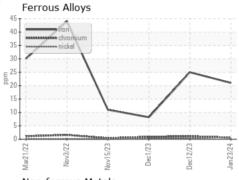


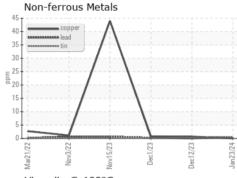


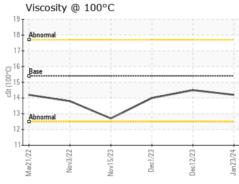
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

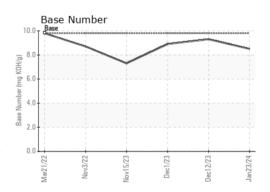
FLUID PROPE	RHES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.5	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Test Package : FLEET

Lab Number **Unique Number**

: GFL0109969 : 06071334 : 10848011

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 26 Jan 2024 Diagnosed

: 26 Jan 2024 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

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)