

OIL ANALYSIS REPORT

Sample Rating Trend



MONTGOMERY **MACK 420048**

Component Diesel Engine Fluid

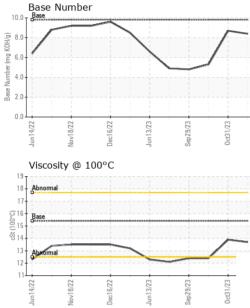
PETRO CANADA DURON SHP 15W40 (--- LTR)

AGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
ommendation	Sample Number		Client Info		GFL0087993	GFL0092392	GFL0092375
ample at the next service interval to monitor.	Sample Date		Client Info		10 Nov 2023	31 Oct 2023	05 Oct 2023
r	Machine Age	hrs	Client Info		5916	5795	5674
omponent wear rates are normal.	Oil Age	hrs	Client Info		242	121	457
tamination	Oil Changed		Client Info		Changed	Not Changd	Changed
here is no indication of any contamination in the iil.	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition The BN result indicates that there is suitable Ikalinity remaining in the oil. The condition of the il is suitable for further service.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	.S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	15	14	88
	Chromium	ppm	ASTM D5185m	>20	<1	<1	2
	Nickel	ppm	ASTM D5185m	>5	1	<1	2
	Titanium	ppm	ASTM D5185m	>2	<1	<1	0
	Silver	ppm	ASTM D5185m	>2	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	3	4
	Lead	ppm	ASTM D5185m	>40	<1	0	2
	Copper	ppm	ASTM D5185m	>330	2	1	4
	Tin	ppm	ASTM D5185m	>15	<1	<1	2
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	Cadmium	ppm	ASTM D5185m		<1	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	3	3	4
	Barium	ppm	ASTM D5185m	0	<1	<1	0
	Molybdenum	ppm	ASTM D5185m	60	64	64	61
	Manganese	ppm	ASTM D5185m	0	<1	0	2
	Magnesium	ppm	ASTM D5185m	1010	937	956	925
	Calcium	ppm	ASTM D5185m	1070	1085	1063	1028
	Phosphorus	ppm	ASTM D5185m	1150	1030	1013	976
	Zinc	ppm	ASTM D5185m	1270	1209	1235	1231
	Sulfur	ppm	ASTM D5185m	2060	3017	3719	2447
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	5	11
	Sodium	ppm	ASTM D5185m		0	4	6
	Potassium	ppm	ASTM D5185m	>20	4	4	9
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.3	0.2	1.3
	A Provinsi	Abs/cm	*ASTM D7624	>20	6.1	5.6	10.7
	Nitration				10.4	10.0	
	Nitration	Abs/.1mm	*ASTM D7415	>30	18.4	18.0	23.7
		Abs/.1mm		>30 limit/base		18.0 history1	
	Sulfation	Abs/.1mm		limit/base			23.7 history2 19.8



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VISUAL



Sep29/23	White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE NORML NORML >0.2	NONE NONE NONE NONE NONE NORML NORML NEG	NONE NONE NONE NONE NONE NORML NORML NEG	NONE NONE NONE NONE NONE NORML NORML NEG
	Free Water	scalar BTIES	*Visual method	limit/base	NEG current	NEG history1	NEG history2
	Visc @ 100°C	cSt	ASTM D445		13.7	13.9	12.4
	GRAPHS						
	Ferrous Alloys	EZELUN	Sap29/23		Base Number		
	13 Abnormal	1		<u>2.0</u> -			
	Jun 14/22	Jun13/23	Sep29/23 +	0.0	Jun 14/22	Dec16/22	Sep29/23
	: WearCheck USA - : GFL0087993 : 06005207 : 10738969 : FLEET contact Customer Serv re outside of the ISO 1	501 Madia Received Diagnos Diagnos	son Ave., Ca d : 13 ed : 13 tician : We	ry, NC 27513 Nov 2023 Nov 2023 s Davis 9.		rironmental - 955 112 Mo	

To discuss this sample * - 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)

Certificate L2367