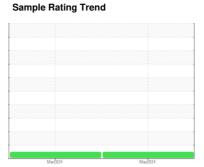


OIL ANALYSIS REPORT



PETRO CANADA DURON SHP 15W40 (35 QTS)





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

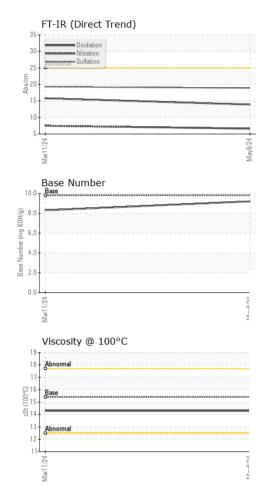
Fluid Condition

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

Client Info	N 3HF 15W40 (J3 Q10)		Marzuz4	majecei		
Client Info	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 8737	Sample Number		Client Info		GFL0108540	GFL0108551	
Dil Age	Sample Date		Client Info		09 May 2024	11 Mar 2024	
Dil Changed Client Info N/A Changed Changed NORMAL NORM	Machine Age	hrs	Client Info		-	8737	
CONTAMINATION method minit/base current history1 history2	Oil Age	hrs	Client Info		0	600	
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >3.0 <1.0	Oil Changed		Client Info		N/A	Changed	
Fuel	Sample Status				NORMAL	NORMAL	
Water WC Method So.2 NEG NEG Signal WC Method NEG NEG Signal WC Method NEG NEG Signal NEG Signal NEG Signal S	CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
WEAR METALS	-uel		WC Method	>3.0	<1.0	<1.0	
WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >120 10 6 Chromium ppm ASTM D5185m >20 0 <1	Nater		WC Method	>0.2	NEG	NEG	
Chromium	Glycol		WC Method		NEG	NEG	
Chromium	WEAR METAL	_S	method	limit/base	current	history1	history2
Strickel	ron	ppm	ASTM D5185m	>120	10	6	
Description	Chromium	ppm	ASTM D5185m	>20	0	<1	
Silver	Nickel	ppm	ASTM D5185m	>5	0	<1	
Aluminum	Γitanium	ppm	ASTM D5185m	>2	0	<1	
Lead	Silver	ppm	ASTM D5185m	>2	0	<1	
Copper	Aluminum	ppm	ASTM D5185m	>20	2	3	
Prince	Lead	ppm	ASTM D5185m	>40	0	0	
Tin	Copper	ppm	ASTM D5185m	>330	1	4	
ADDITIVES		ppm	ASTM D5185m	>15	0	<1	
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	<1	
Soron ppm ASTM D5185m 0 0 0 0 0 0 0 0	Cadmium		ASTM D5185m		0	<1	
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 60 61 61 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 1010 1001 923 Calcium ppm ASTM D5185m 1070 1149 1118 Phosphorus ppm ASTM D5185m 1150 1064 1002 Zinc ppm ASTM D5185m 1270 1242 1232 Sulfur ppm ASTM D5185m 2060 3620 2981 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 4 Sodium ppm ASTM D5185m >20 <1	Boron	ppm	ASTM D5185m	0	0	3	
Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 1010 1001 923 Calcium ppm ASTM D5185m 1070 1149 1118 Phosphorus ppm ASTM D5185m 1150 1064 1002 Zinc ppm ASTM D5185m 1270 1242 1232 Sulfur ppm ASTM D5185m 2060 3620 2981 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 4 Sodium ppm ASTM D5185m >20 <1	Barium	ppm	ASTM D5185m	0	0	0	
Magnesium ppm ASTM D5185m 1010 1001 923 Calcium ppm ASTM D5185m 1070 1149 1118 Phosphorus ppm ASTM D5185m 1150 1064 1002 Zinc ppm ASTM D5185m 1270 1242 1232 Sulfur ppm ASTM D5185m 2060 3620 2981 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 4 Sodium ppm ASTM D5185m >20 <1	Molybdenum	ppm	ASTM D5185m	60	61	61	
Calcium ppm ASTM D5185m 1070 1149 1118 Phosphorus ppm ASTM D5185m 1150 1064 1002 Zinc ppm ASTM D5185m 1270 1242 1232 Sulfur ppm ASTM D5185m 2060 3620 2981 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 4 Sodium ppm ASTM D5185m >20 <1	Manganese	ppm	ASTM D5185m	0	0	0	
Phosphorus ppm ASTM D5185m 1150 1064 1002 Zinc ppm ASTM D5185m 1270 1242 1232 Sulfur ppm ASTM D5185m 2060 3620 2981 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 4 Sodium ppm ASTM D5185m +4 2 Potassium ppm ASTM D5185m >20 <1	Magnesium	ppm	ASTM D5185m	1010	1001	923	
Tinc ppm ASTM D5185m 1270 1242 1232	Calcium	ppm	ASTM D5185m	1070	1149	1118	
Sulfur ppm ASTM D5185m 2060 3620 2981 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 4 Sodium ppm ASTM D5185m 4 2 Potassium ppm ASTM D5185m >20 <1	Phosphorus	ppm	ASTM D5185m	1150	1064	1002	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 4 Sodium ppm ASTM D5185m 4 2 Potassium ppm ASTM D5185m >20 <1	Zinc	ppm	ASTM D5185m	1270	1242	1232	
Silicon ppm ASTM D5185m >25 4 4	Sulfur	ppm	ASTM D5185m	2060	3620	2981	
Sodium ppm ASTM D5185m 4 2 Potassium ppm ASTM D5185m >20 <1	CONTAMINA	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.7 0.3 Nitration Abs/cm *ASTM D7624 >20 6.6 7.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 15.8	Silicon	ppm	ASTM D5185m	>25	4	4	
INFRA-RED	Sodium	ppm	ASTM D5185m		4	2	
Soot %	Potassium	ppm	ASTM D5185m	>20	<1	5	
Nitration Abs/cm *ASTM D7624 >20 6.6 7.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.9 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 15.8	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 18.9 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 15.8	Soot %	%	*ASTM D7844	>4	0.7	0.3	
Sulfation Abs/.1mm *ASTM D7415 >30 18.9 19.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 15.8	Nitration	Abs/cm	*ASTM D7624	>20	6.6	7.5	
Oxidation	Sulfation		*ASTM D7415	>30			
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	15.8	
	Base Number (BN)	mg KOH/g	ASTM D2896		9.2	8.3	

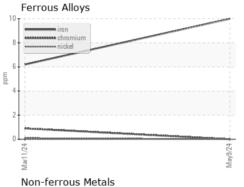


OIL ANALYSIS REPORT

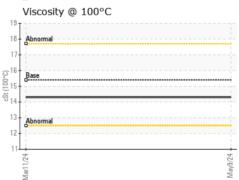


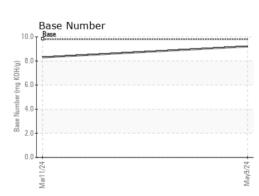
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.3	



	10 т	
		copper
	_	beautiful participation of the
	8	nonnennenn tin
	6	
ppm		
d		
	4	
	2	
	~	
		terminal and the second
	0 1	·
		24
)
		Marl 1/24
		Σ 2









Certificate 12367

Sample No. Lab Number : 06178368

: GFL0108540 Unique Number : 11029694 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 May 2024

Tested : 14 May 2024 Diagnosed : 14 May 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC 11888 & 11863 30th Avenue Chippewa Falls, WI

US 54729 Contact: Andy Kane

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)

T: (715)202-3420

Report Id: GFL904 [WUSCAR] 06178368 (Generated: 05/14/2024 18:37:20) Rev: 1

Submitted By: See also GFL904,A,B,C, 927, 938 - Andy Kane