

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 4521M Component **Diesel Engine** Fluid

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

DIAGNOSIS	AMPLE INFORM	IATION	method	limit/base	current	history1	history2
Recommendation Sam	nple Number		Client Info		GFL0110001	GFL0104386	GFL0085011
	nple Date		Client Info		11 Jan 2024	01 Dec 2023	19 Sep 2023
	hine Age	hrs	Client Info		23308	23057	22582
to monitor. Oil A	Age	hrs	Client Info		251	23057	22582
A	Changed		Client Info		Changed	Changed	N/A
The element of the element of All ethers	nple Status				ABNORMAL	NORMAL	NORMAL
Contamination	ONTAMINATI	ON	method	limit/base	current	history1	history2
There is no indication of any contamination in the Fuel	l		WC Method	>3.0	<1.0	<1.0	<1.0
oil. Wate	er		WC Method	>0.2	NEG	NEG	NEG
Fluid Condition Glyc The BN result indicates that there is suitable	col		WC Method		NEG	NEG	NEG
alkalinity remaining in the oil. The condition of the	EAR METALS	6	method	limit/base	current	history1	history2
bil is suitable for further service. Iron		ppm	ASTM D5185m	>90	25	10	53
Chro	omium	ppm	ASTM D5185m	>20	2	<1	2
Nick	el	ppm	ASTM D5185m	>2	<1	<1	<1
Titar	nium	ppm	ASTM D5185m	>2	0	0	<1
Silve	ər	ppm	ASTM D5185m		0	0	0
Alur	ninum	ppm	ASTM D5185m	>20	<u> </u>	3	4
Lead		ppm	ASTM D5185m		<1	<1	0
Сор		ppm	ASTM D5185m		12	2	2
Tin		ppm	ASTM D5185m		<1	<1	<1
	adium	ppm	ASTM D5185m	210	0	0	0
	mium	ppm	ASTM D5185m		0	<1	0
IA	DDITIVES		method	limit/base	current	history1	history2
Borc	on	ppm	ASTM D5185m	0	2	0	3
Bari	um	ppm	ASTM D5185m	0	0	0	0
Moly	ybdenum	ppm	ASTM D5185m		54	85	65
	iganese						
		DDM	ASTM D5185m	0	~1	0	1
	0	ppm ppm	ASTM D5185m		<1 602	0	1
Mag	inesium	ppm	ASTM D5185m	1010	602	1374	1007
Mag Calc	jnesium cium	ppm ppm	ASTM D5185m ASTM D5185m	1010 1070	602 1504	1374 1431	1007 1184
Mag Calc Pho:	nesium tium sphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150	602 1504 717	1374 1431 1464	1007 1184 1097
Mag Calc Pho: Zinc	sphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270	602 1504 717 963	1374 1431 1464 1780	1007 1184 1097 1352
Mag Calc Pho: Zinc Sulf	unesium sium sphorus sur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060	602 1504 717 963 2419	1374 1431 1464 1780 4669	1007 1184 1097 1352 3506
Mag Calc Phos Zinc Sulfu	o inesium sium sphorus s ur ONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1010 1070 1150 1270 2060 limit/base	602 1504 717 963 2419 current	1374 1431 1464 1780 4669 history1	1007 1184 1097 1352 3506 history2
Mag Calc Pho: Zinc Sulf Sulf	onesium sium sphorus c ur ONTAMINANT on	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base	602 1504 717 963 2419 current 6	1374 1431 1464 1780 4669 history1 4	1007 1184 1097 1352 3506 history2 9
Mag Calc Pho: Zinc Sulf Silic Silic	inesium sium sphorus ur ONTAMINAN ^T on	ppm ppm ppm ppm ppm ppm FS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25	602 1504 717 963 2419 current 6 14	1374 1431 1464 1780 4669 history1 4 0	1007 1184 1097 1352 3506 history2 9 13
Mag Calo Pho: Zinc Sulfu C(Silic Sodi Pota	innesium sium sphorus ur ONTAMINAN on ium assium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20	602 1504 717 963 2419 current 6 14 14	1374 1431 1464 1780 4669 history1 4 0 7	1007 1184 1097 1352 3506 history2 9 13 3
Mag Calc Pho: Zinc Sulfu CC Silic Sodi Pota	inesium sphorus phorus ur ONTAMINAN ^T on ium assium	ppm ppm ppm ppm ppm FS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base	602 1504 717 963 2419 current 6 14 14 14	1374 1431 1464 1780 4669 history1 4 0 7 history1	1007 1184 1097 1352 3506 history2 9 13 3 history2
Mag Calc Pho: Zinc Sulfu CC Silic Sodi Pota	inesium sphorus on ium assium IFRA-RED t %	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >6	602 1504 717 963 2419 current 6 14 14 14 20	1374 1431 1464 1780 4669 history1 4 0 7 history1 0.1	1007 1184 1097 1352 3506 history2 9 13 3 history2 1.3
Mag Calo Phos Zinc Sulfu CC Silic Sodi Pota IN Sooi Nitra	innesium pinesium sphorus ur ONTAMINANT on ium assium IFRA-RED t % ation	ppm ppm ppm ppm ppm ppm ppm ppm ppm % Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >20 limit/base >6 >20	602 1504 717 963 2419 current 6 14 14 14 current 0 11.1	1374 1431 1464 1780 4669 history1 4 0 7 history1 0.1 5.9	1007 1184 1097 1352 3506 history2 9 13 3 history2 1.3 1.3 11.2
Mag Calo Pho Zinc Sulfu Sulfu Sodi Pota IN Soot Nitra Sulfu	inesium sphorus sphorus ur ONTAMINAN ^T on ium assium IFRA-RED IFRA-RED t % ation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >20 limit/base >6 >20	602 1504 717 963 2419 current 6 14 14 14 20	1374 1431 1464 1780 4669 history1 4 0 7 history1 0.1	1007 1184 1097 1352 3506 history2 9 13 3 history2 1.3
Mag Calo Pho Zinc Sulfu Sulfu Sodi Pota IN Soot Nitra Sulfu	innesium pinesium sphorus ur ONTAMINANT on ium assium IFRA-RED t % ation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >20 limit/base >6 >20	602 1504 717 963 2419 current 6 14 14 14 current 0 11.1	1374 1431 1464 1780 4669 history1 4 0 7 history1 0.1 5.9	1007 1184 1097 1352 3506 history2 9 13 3 history2 1.3 1.3 11.2
Mag Calc Pho: Zinc Sulfa Silic Sodi Pota IN Soot Nitra Sulfa	inesium sphorus sphorus ur ONTAMINAN ^T on ium assium IFRA-RED IFRA-RED t % ation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >20 >30 limit/base	602 1504 717 963 2419 current 6 14 14 14 0 0 11.1 23.8	1374 1431 1464 1780 4669 history1 4 0 7 history1 0.1 5.9 17.9	1007 1184 1097 1352 3506 history2 9 13 3 history2 1.3 1.3 11.2 22.9

been noted. Resample at the next service inte to monitor.

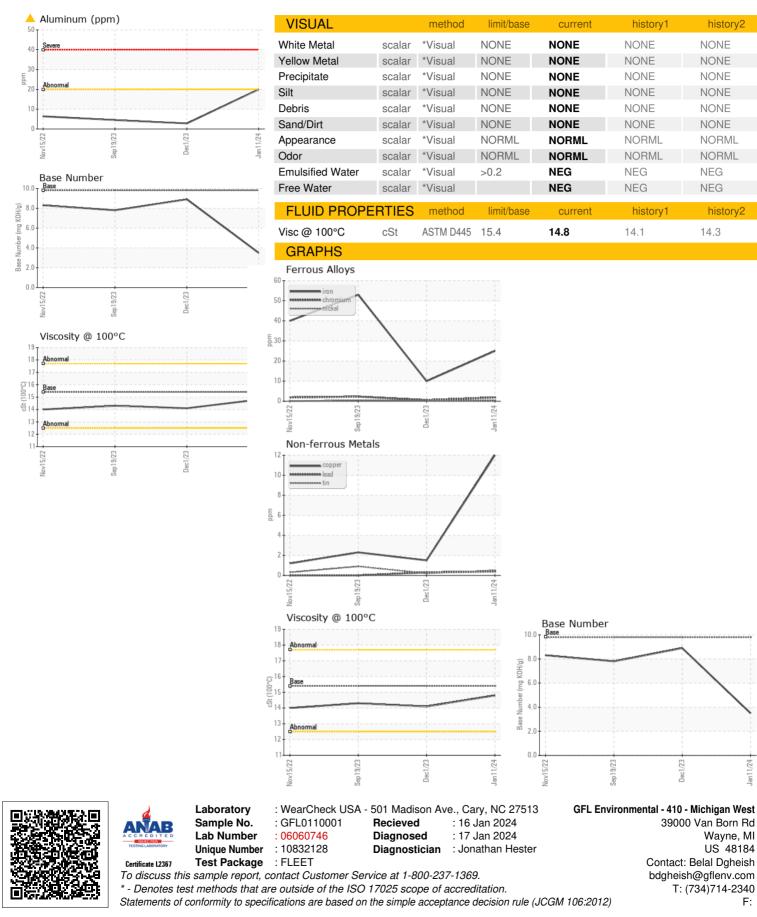
🔺 Wear

Contamination

Fluid Condition



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Submitted By: Belal Dgheish

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