

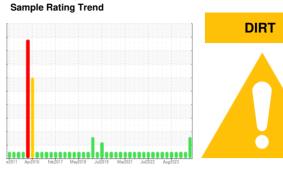
OIL ANALYSIS REPORT



G.LOPES CONSTRUCTION INC./Off-Road

L00 Component
Diesel Engine

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



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

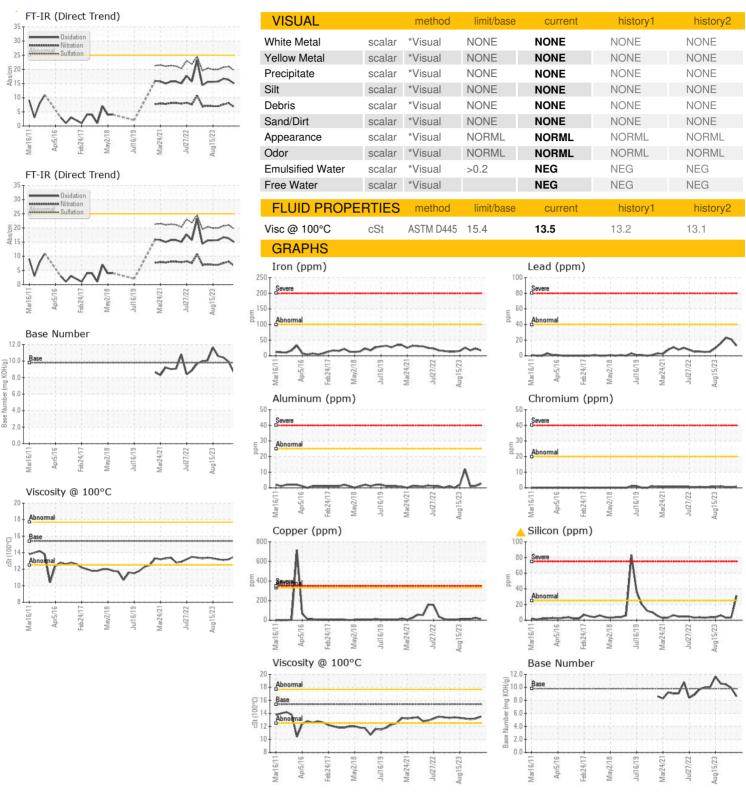
Fluid Condition

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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122955	PCA0122683	PCA0109859
Sample Date		Client Info		12 Jun 2024	17 Apr 2024	20 Dec 2023
	hrs	Client Info		34603	34603	34603
	hrs	Client Info		34603	34603	34603
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS)	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	17	23	17
	ppm	ASTM D5185m	>20	<1	<1	<1
	ppm	ASTM D5185m	>2	1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m		3	1	1
	ppm	ASTM D5185m	>40	13	21	23
Copper	ppm	ASTM D5185m		12	23	12
		ASTM D5185m	>15	<1	1	<1
	ppm	ASTM D5185m	>10	0	<1	0
	ppm			<1	0	0
	ppm	ASTM D5185m				
ADDITIVES		method	limit/base	current	history1	history2
	ppm		0	4	<1	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	58	58
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	961	925	936
Calcium	ppm	ASTM D5185m	1070	1134	1104	1011
Phosphorus	ppm	ASTM D5185m	1150	1048	1005	1051
	1-1-			1040		
	ppm	ASTM D5185m	1270	1276	1108	1235
Zinc		ASTM D5185m ASTM D5185m	1270 2060			
Zinc	ppm ppm			1276	1108	1235
Zinc Sulfur CONTAMINANT	ppm ppm	ASTM D5185m	2060	1276 3138	1108 3424	1235 2976
Zinc Sulfur CONTAMINANT Silicon	ppm ppm	ASTM D5185m method	2060 limit/base	1276 3138 current	1108 3424 history1	1235 2976 history2
Zinc Sulfur CONTAMINANT Silicon Sodium	ppm ppm S	ASTM D5185m method ASTM D5185m	2060 limit/base	1276 3138 current	1108 3424 history1	1235 2976 history2
Zinc Sulfur CONTAMINANT Silicon Sodium	ppm ppm S ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	2060 limit/base >25	1276 3138 current 31 6	1108 3424 history1 3 1	1235 2976 history2 3 0
Zinc Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED	ppm ppm S ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	2060 limit/base >25 >20	1276 3138 current 31 6 5	1108 3424 history1 3 1	1235 2976 history2 3 0
Zinc Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm S ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	2060 limit/base >25 >20 limit/base	1276 3138 current 31 6 5 current	1108 3424 history1 3 1 0 history1	1235 2976 history2 3 0 0 history2
Zinc Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	2060 limit/base >25 >20 limit/base >3	1276 3138 current 31 6 5 current 0.5	1108 3424 history1 3 1 0 history1 0.7	1235 2976 history2 3 0 0 history2 0.6
Zinc Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm S ppm ppm ppm ppm Abs/.1mm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	2060 limit/base >25 >20 limit/base >3 >20	1276 3138 current 31 6 5 current 0.5 6.7	1108 3424 history1 3 1 0 history1 0.7 8.1	1235 2976 history2 3 0 0 history2 0.6 7.6
Zinc Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD	ppm ppm S ppm ppm ppm ppm Abs/.1mm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	2060 limit/base >25 >20 limit/base >3 >20 >30	1276 3138 current 31 6 5 current 0.5 6.7 19.7	1108 3424 history1 3 1 0 history1 0.7 8.1 21.0	1235 2976 history2 3 0 0 history2 0.6 7.6 20.7



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number : 06210359 Unique Number : 11083223

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0122955

Received : 14 Jun 2024 **Tested**

: 17 Jun 2024 Diagnosed : 18 Jun 2024 - Don Baldridge **G LOPES CONSTRUCTION**

565 WINTHROP ST TAUNTON, MA US 02780

Contact: BUTCH MCGRATH

bmcgrath@glopes.com T:

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)

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