

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **MACK 421059-SW4105** Component

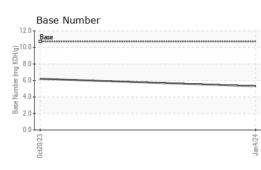
Diesel Engine Fluid

MOBIL DELVAC ELITE 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0095483	GFL0095446	
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Jan 2024	20 Oct 2023	
Wear	Machine Age	hrs	Client Info		3103	4646	
All component wear rates are normal.	Oil Age	hrs	Client Info		500	500	
Contamination	Oil Changed		Client Info		Changed	Changed	
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	
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.	CONTAMINAT	ION	method	limit/base	current	history1	history2
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	4	5	
	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		4	3	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		1	2	
	Tin	ppm	ASTM D5185m		- <1	0	
	Vanadium	ppm	ASTM D5185m	210	0	0	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		77	67	
	Barium	ppm	ASTM D5185m		0	3	
	Molybdenum	ppm	ASTM D5185m		110		
	,				110	118	
	Manganese	ppm	ASTM D5185m				
	Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		0 629	0 629	
	Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		0 629 1131	0 629 1198	
	Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 629 1131 677	0 629 1198 681	
	Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		0 629 1131	0 629 1198	
	Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 629 1131 677 744 2902	0 629 1198 681 822	
	Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 629 1131 677 744 2902	0 629 1198 681 822 3362	
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		0 629 1131 677 744 2902 current	0 629 1198 681 822 3362 history1	 history2
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25	0 629 1131 677 744 2902 current 3	0 629 1198 681 822 3362 history1 3	 history2
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25	0 629 1131 677 744 2902 current 3 3 3 3	0 629 1198 681 822 3362 history1 3 2	 history2
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 limit/base	0 629 1131 677 744 2902 current 3 3 3 3	0 629 1198 681 822 3362 history1 3 2 5	 history2
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 limit/base >4	0 629 1131 677 744 2902 current 3 3 3 3	0 629 1198 681 822 3362 history1 3 2 5 5 history1 0.2	 history2 history2
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 limit/base >4 >20	0 629 1131 677 744 2902 current 3 3 3 3 3	0 629 1198 681 822 3362 history1 3 2 5 history1	 history2 history2
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624	>25 >20 limit/base >4 >20	0 629 1131 677 744 2902 current 3 3 3 3 3 Current 0.2 9.6 19.1	0 629 1198 681 822 3362 history1 3 2 5 5 history1 0.2 9.5	 history2 history2
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAU	ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm ppm Abs/cm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7415	>25 >20 limit/base >4 >20 >30 limit/base	0 629 1131 677 744 2902 current 3 3 3 3 3 current 0.2 9.6 19.1 current	0 629 1198 681 822 3362 history1 3 2 5 history1 0.2 9.5 18.8 history1	 history2 history2 history2 history2
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm TS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624	>25 >20 limit/base >4 >20 >30 limit/base >25	0 629 1131 677 744 2902 current 3 3 3 3 3 Current 0.2 9.6 19.1	0 629 1198 681 822 3362 history1 3 2 5 <u>history1</u> 0.2 9.5 18.8	 history2 history2 history2

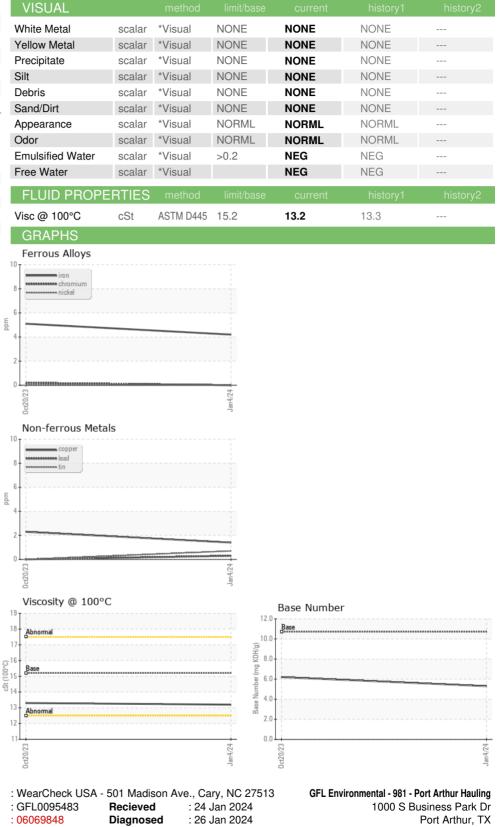


OIL ANALYSIS REPORT









: Don Baldridge



 Certificate L2367
 Test Package
 : FLEET

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - 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)

Diagnostician

: 10846525

Laboratory

Sample No.

Lab Number

Unique Number

Contact: MICHAEL KAY

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T: (336)660-9331

US 77640

F: