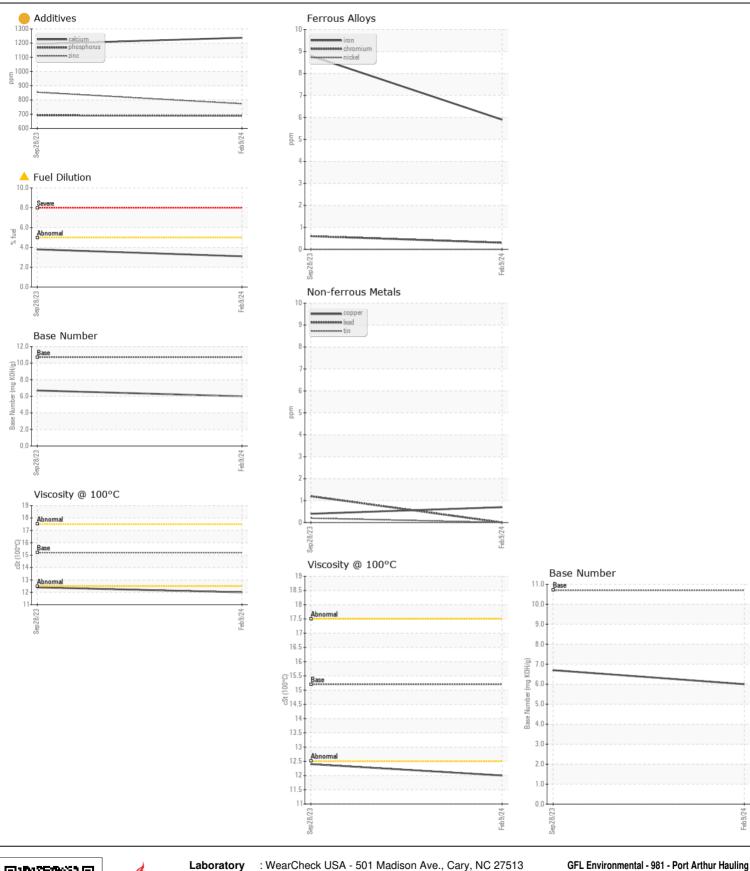
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ATTENTION

KENWORTH 428109-SW4836

Diesel Engine							
MOBIL DELVAC ELITE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Number	OOW	Client Info	LIIIIUADII	GFL0111342	GFL0095442	,
	Sample Date		Client Info		09 Feb 2024	28 Sep 2023	
	Machine Age	hrs	Client Info		14997	14213	
	Oil Age	hrs	Client Info		0	500	
	Filter Age	hrs	Client Info		0	500	
	Oil Changed	1110	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	ATTENTION	
WEAD			AOTA D5405	400			
WEAR	Iron	ppm	ASTM D5185m		6	9	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m	0	0	0	
	Silver	ppm	ASTM D5185m		0	0 2	
	Aluminum	ppm	ASTM D5185m		3	1	
	Lead	ppm	ASTM D5185m		0	·	
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		<1 0	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	<1 0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal		*Visual	NONE	NONE	NONE	
	Tellow Metal	scalar	VISUAI	INOINE	INOINE	INOINE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	4	
	Potassium	ppm	ASTM D5185m	>20	<1	2	
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>5	▲ 3.1	△ 3.8	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.8	1.3	
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	19.3	
	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	
ELUID CONDITION	Sodium	nnm	ASTM D5185m		2	2	_
FLUID CONDITION	Boron	ppm	ASTM D5185m		<u>85</u>	68	
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		116	115	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium		ASTM D5185m		627	636	
	Calcium	ppm	ASTM D5185m		1238	1194	
	Phosphorus	ppm	ASTM D5185m		689	691	
	Zinc	ppm	ASTM D5185m		773	854	
	Sulfur	ppm	ASTM D5185m		3012	3035	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	14.2	
	Base Number (BN)			10.7	6.0	6.7	
	Visc @ 100°C	cSt	ASTM D445		12.0	12.4	
					<u> </u>		





Laboratory Sample No.

Lab Number : 06101344 Unique Number : 10899574

: GFL0111342

Received **Tested**

Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 29 Feb 2024 : 29 Feb 2024 - Wes Davis

: 27 Feb 2024

1000 S Business Park Dr Port Arthur, TX

Contact: MICHAEL KAY mkay@gflenv.com T: (336)660-9331

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)

US 77640