



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**FORD 1FTFW1EG8GKD68154**  
 Component  
**Gasoline Engine**  
 Fluid  
**TRC PRO-SPEC MULTI VISC 5W30 (6 LTR)**

## RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is a moderate concentration of dirt present in the oil.

## FLUID CONDITION

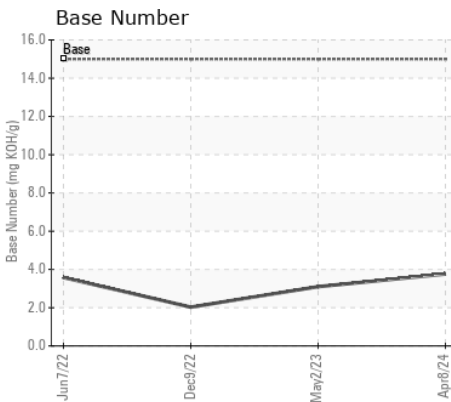
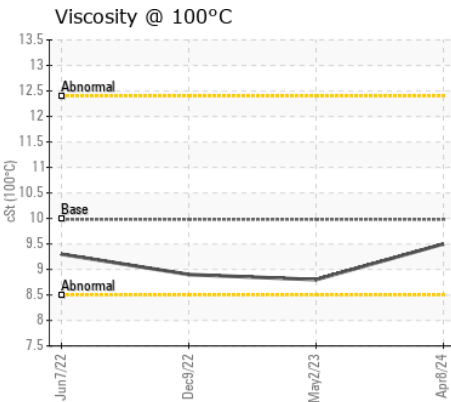
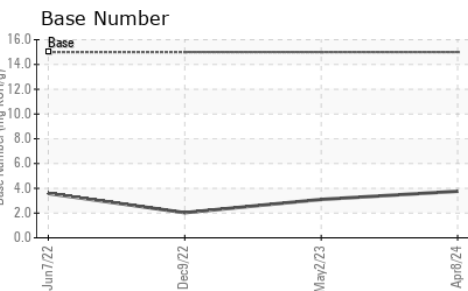
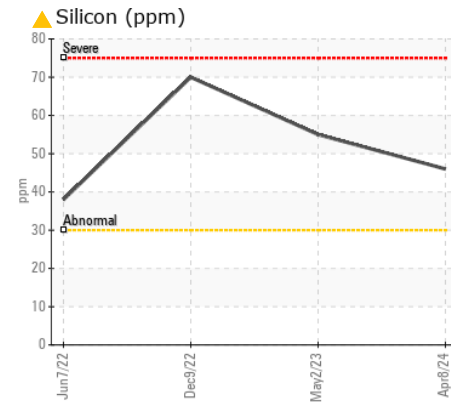
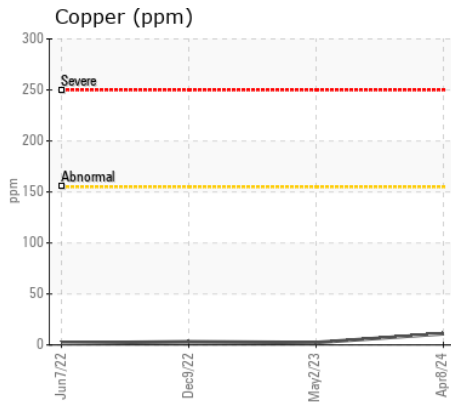
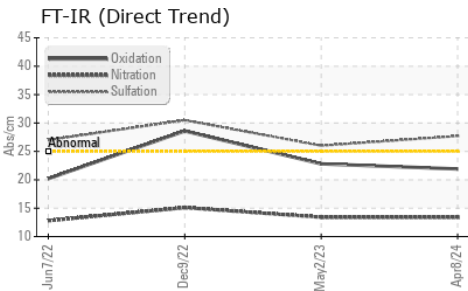
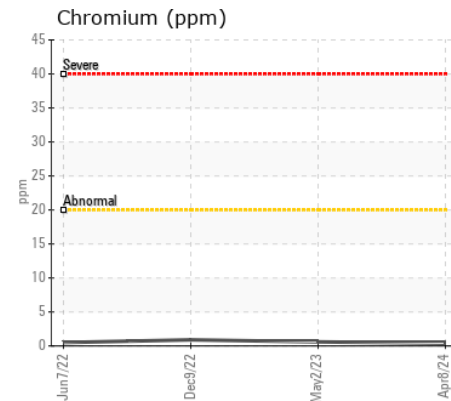
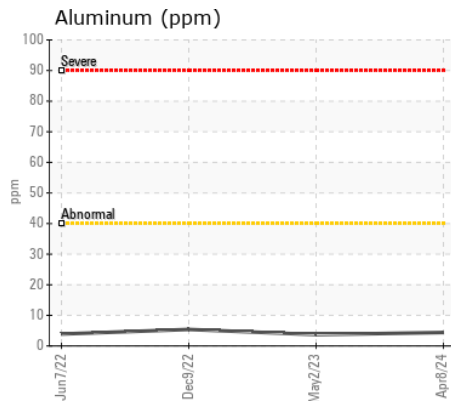
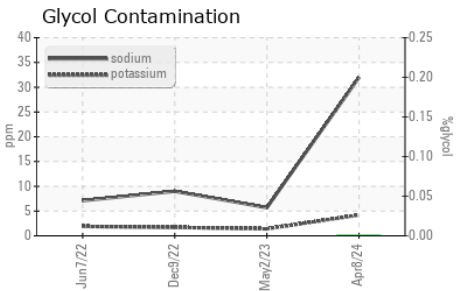
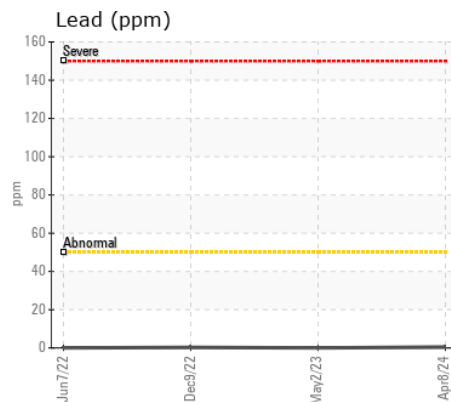
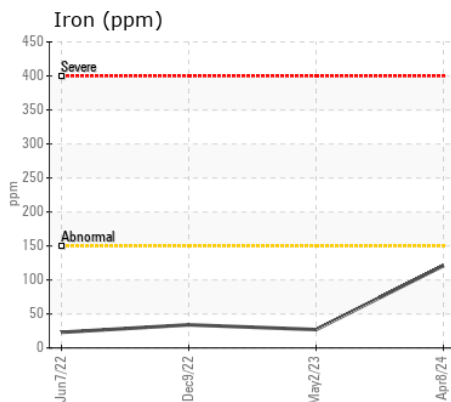
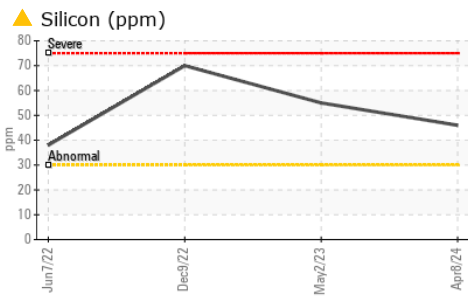
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02629203	TR02562192	TR02532538
Sample Date		Client Info		08 Apr 2024	02 May 2023	09 Dec 2022
Machine Age	hrs	Client Info		8103	7236	6925
Oil Age	hrs	Client Info		300	310	369
Filter Age	hrs	Client Info		300	310	369
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185(m)	>150	121	27	34
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	3	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	4	4	5
Lead	ppm	ASTM D5185(m)	>50	<1	0	<1
Copper	ppm	ASTM D5185(m)	>155	11	2	3
Tin	ppm	ASTM D5185(m)	>10	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	<1	<1

Silicon	ppm	ASTM D5185(m)	>30	▲ 46	▲ 55	▲ 70
Potassium	ppm	ASTM D5185(m)	>20	4	1	2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.4	13.4	15.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.7	26.0	30.5
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185(m)	>400	32	6	9
Boron	ppm	ASTM D5185(m)		26	39	25
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		63	64	65
Manganese	ppm	ASTM D5185(m)		2	<1	<1
Magnesium	ppm	ASTM D5185(m)		467	451	458
Calcium	ppm	ASTM D5185(m)	4200	1144	1146	1183
Phosphorus	ppm	ASTM D5185(m)	800	613	640	634
Zinc	ppm	ASTM D5185(m)	800	677	638	673
Sulfur	ppm	ASTM D5185(m)		2674	2175	2149
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.9	22.8	28.6
Base Number (BN)	mg KOH/g	ASTM D2896*	15	3.76	3.10	2.03
Visc @ 100°C	cSt	ASTM D7279(m)	9.98	9.5	8.8	8.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : TR02629203 **Received** : 16 Apr 2024  
**Lab Number** : 02629203 **Tested** : 18 Apr 2024  
**Unique Number** : 5762335 **Diagnosed** : 18 Apr 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: Glycol )

**VALLEY VIEW COLONY**  
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To discuss this sample report, contact Customer Service at 1-800-827-0711.  
 \* - 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)