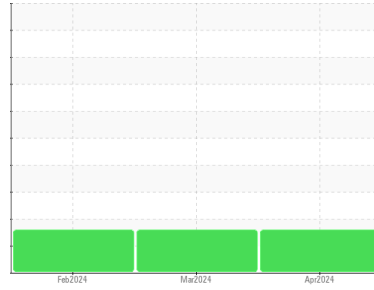


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
FORD 515431
Component
Gasoline Engine
Fluid
SAE 5W30 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0085534	PC0085548	PC0085559
Sample Date	Client Info	16 Apr 2024	11 Mar 2024	02 Feb 2024
Machine Age	hrs	16173	12135	8012
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >4.0	<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
Iron	ppm ASTM D5185(m) >150	10	7	5
Chromium	ppm ASTM D5185(m) >20	<1	0	0
Nickel	ppm ASTM D5185(m) >5	0	<1	<1
Titanium	ppm ASTM D5185(m)	<1	<1	0
Silver	ppm ASTM D5185(m) >2	0	0	0
Aluminum	ppm ASTM D5185(m) >40	5	4	4
Lead	ppm ASTM D5185(m) >50	0	0	<1
Copper	ppm ASTM D5185(m) >155	8	8	7
Tin	ppm ASTM D5185(m) >10	0	0	0
Antimony	ppm ASTM D5185(m)	0	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	36	59	109
Barium	ppm ASTM D5185(m)	<1	<1	0
Molybdenum	ppm ASTM D5185(m)	75	76	76
Manganese	ppm ASTM D5185(m)	1	0	<1
Magnesium	ppm ASTM D5185(m)	504	510	510
Calcium	ppm ASTM D5185(m)	1212	1215	1247
Phosphorus	ppm ASTM D5185(m)	642	634	667
Zinc	ppm ASTM D5185(m)	723	738	735
Sulfur	ppm ASTM D5185(m)	2199	2236	2457
Lithium	ppm ASTM D5185(m)	<1	<1	<1

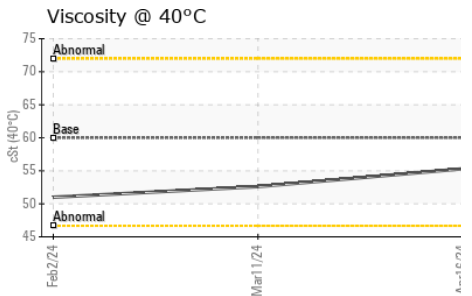
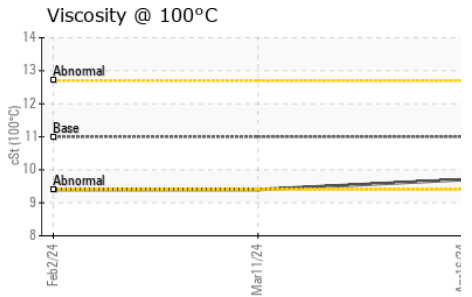
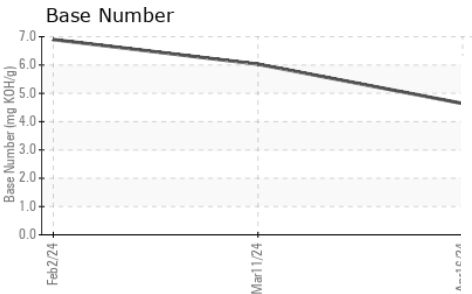
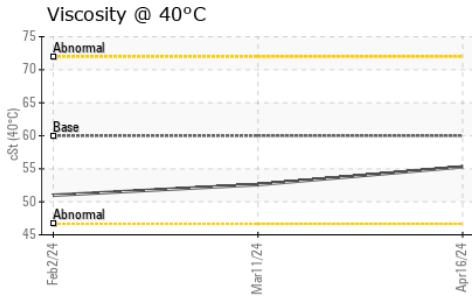
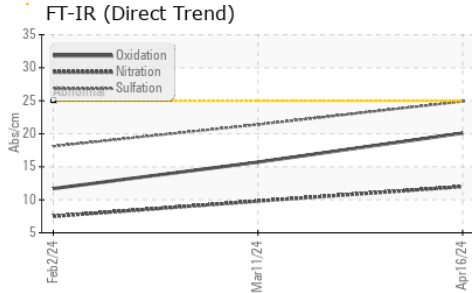
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >30	▲ 33	▲ 32	▲ 30
Sodium	ppm ASTM D5185(m) >400	5	4	3
Potassium	ppm ASTM D5185(m) >20	<1	<1	<1

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624*	12.0	9.8	7.5
Sulfation	Abs./1mm ASTM D7415*	24.9	21.4	18.1

OIL ANALYSIS REPORT

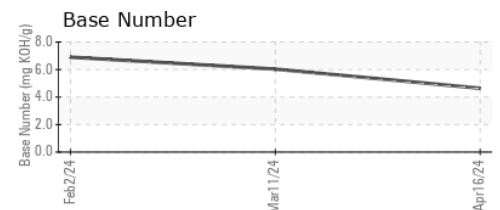
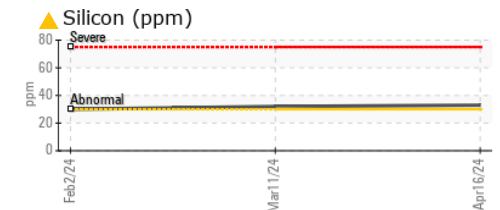
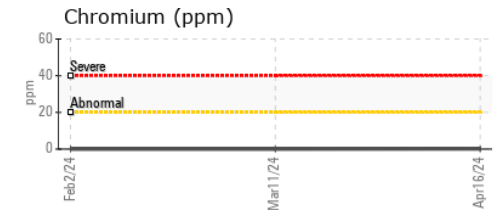
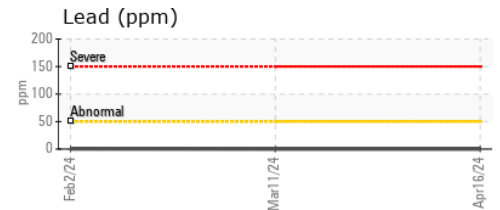
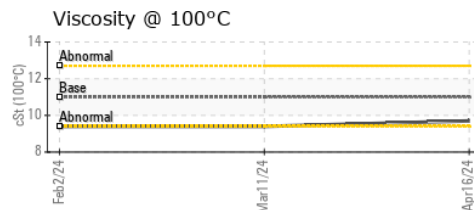
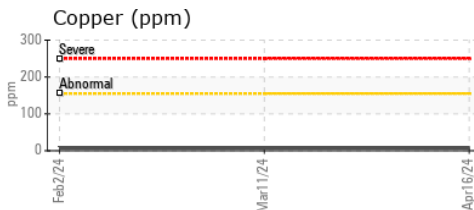
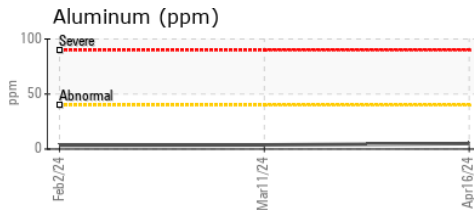
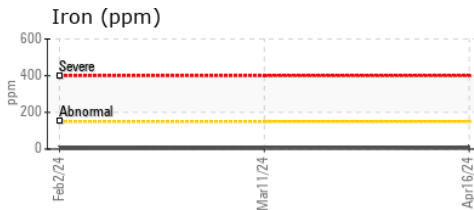


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	20.1	15.7	11.7
Base Number (BN)	mg KOH/g	ASTM D2896*		4.64	6.03	6.90

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE
Precipitate	scalar	Visual*	NONE	NONE	---	VLITE
Silt	scalar	Visual*	NONE	VLITE	---	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	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	60.0	55.3	52.6	51.0
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	9.7	9.4	9.4
Viscosity Index (VI)	Scale	ASTM D2270*	177	161	163	170

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0085534
Lab Number : **02632527**
Unique Number : 5773680
Test Package : MOB 2 (Additional Tests: KV40, VI)

Received : 01 May 2024
Tested : 02 May 2024
Diagnosed : 02 May 2024 - Kevin Marson

UPS CANADA
 2900 STEELES AVE W
 CONCORD, ON
 CA L4K 3S2
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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