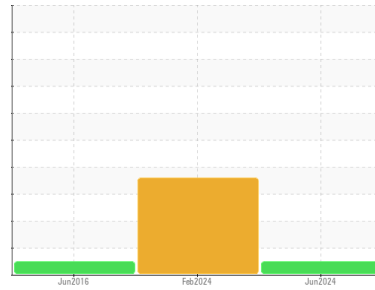




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
DT/DC
 Component
Gearbox
 Fluid
USPI FG GEAR 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			USP0013269	USPM30070	USP149542
Sample Date	Client Info			12 Jun 2024	18 Feb 2024	02 Jun 2016
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	SEVERE	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	1	91	13
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	2	0
Tin	ppm	ASTM D5185m	>25	0	<1	<1
Antimony	ppm	ASTM D5185m	>5	---	---	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		<1	5	0
Calcium	ppm	ASTM D5185m		<1	32	0
Phosphorus	ppm	ASTM D5185m		212	4	15
Zinc	ppm	ASTM D5185m		3	<1	1
Sulfur	ppm	ASTM D5185m		4116	4213	4210

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	<1	<1
Sodium	ppm	ASTM D5185m		1	2	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.2	0.002	0.024	0.002
ppm Water	ppm	ASTM D6304	>2000	22	249	20

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	1792	1771	384
Particles >6µm		ASTM D7647	>5000	527	501	209
Particles >14µm		ASTM D7647	>640	30	61	35
Particles >21µm		ASTM D7647	>160	3	20	12
Particles >38µm		ASTM D7647	>40	0	2	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	18/16/12	18/16/13	16/15/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
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Acid Number (AN) mg KOH/g ASTM D8045

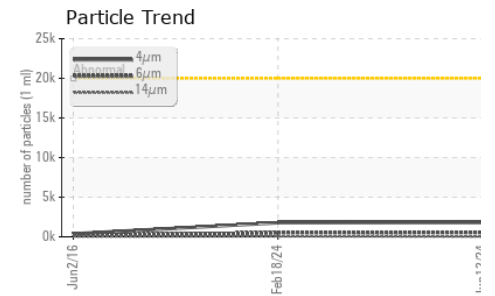
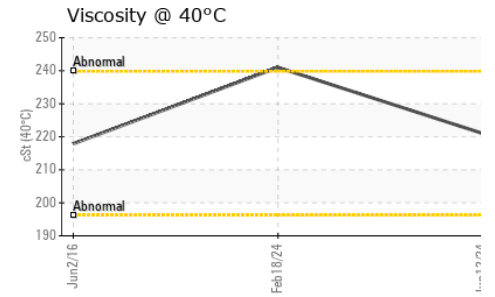
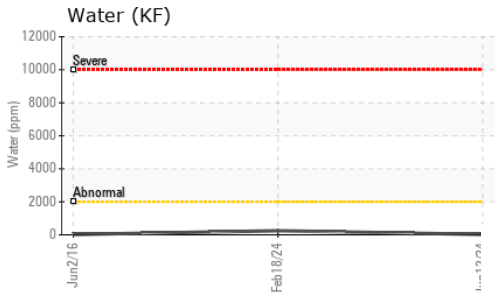
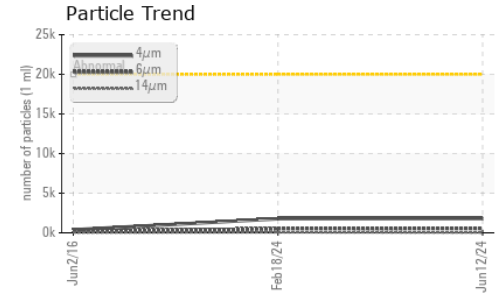
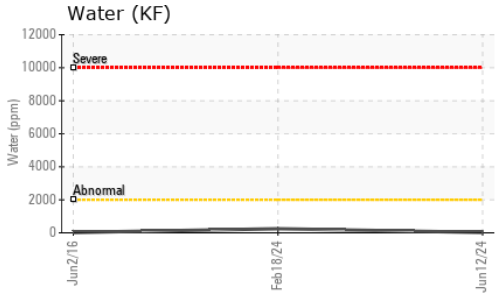
0.58

▲ 3.91

0.401



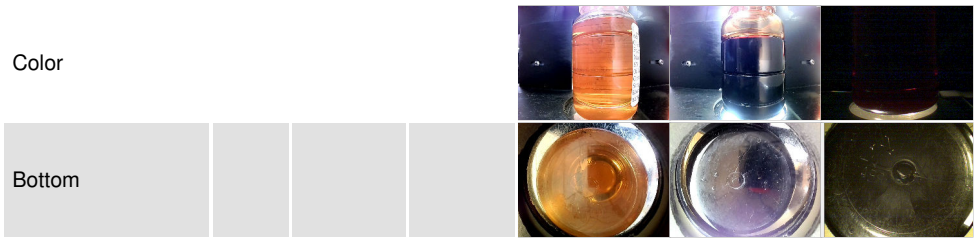
OIL ANALYSIS REPORT



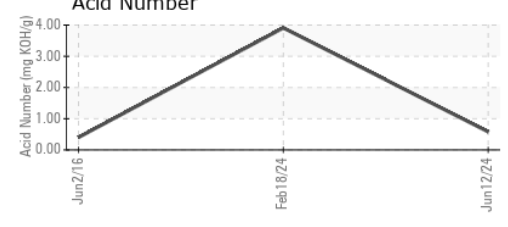
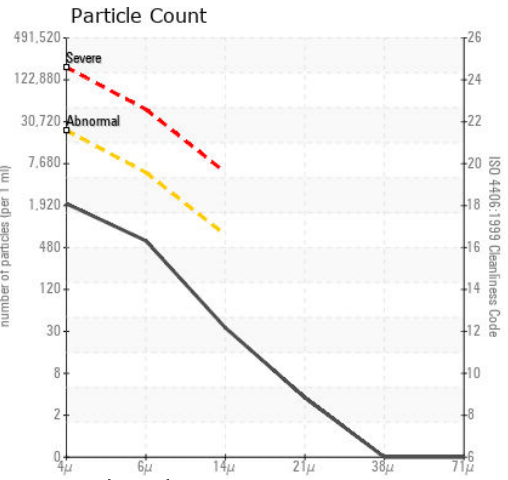
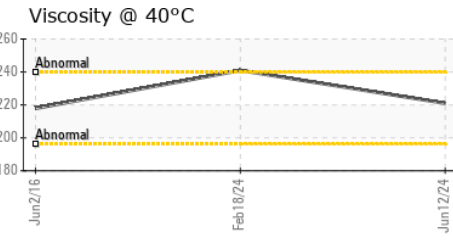
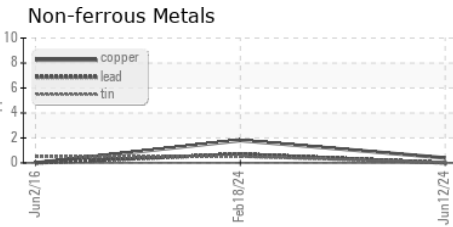
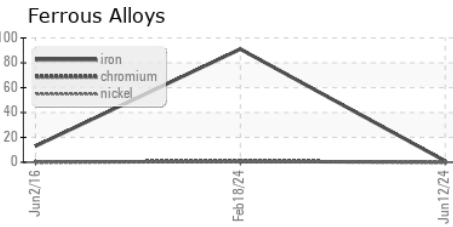
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	221	▲ 241	217.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0013269
Lab Number : 06211689
Unique Number : 11084553
Test Package : IND 2
Received : 17 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 20 Jun 2024 - Doug Bogart

ADM PROCESSING - FREMONT
 130 N BROAD ST
 FREMONT, NE
 US 68025
 Contact: BUTCH RUPERT
 Butch.Ruppert@adm.com

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)