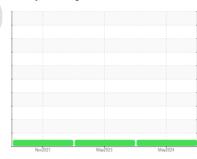


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
91050
Component
Diesel Engine
Fluid
AMERIGUARD 15W40 (10 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

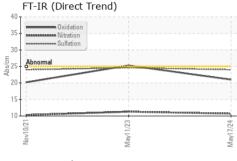
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

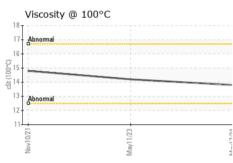
		No	v2021	May2023 May20	24	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007026	SBP0003939	SBP0000202
Sample Date		Client Info		17 May 2024	11 May 2023	10 Nov 2021
Machine Age	mls	Client Info		461460	407190	322545
Oil Age	mls	Client Info		54270	40000	19934
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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 D5185m	>80	24	20	20
Chromium	ppm	ASTM D5185m	>5	1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>30	13	5	10
Lead	ppm	ASTM D5185m	>30	1	0	<1
Copper	ppm	ASTM D5185m	>150	3	2	4
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	23	17
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		64	48	10
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		967	624	694
Calcium	ppm	ASTM D5185m		1400	1679	1503
Phosphorus	ppm	ASTM D5185m		1146	802	750
Zinc	ppm	ASTM D5185m		1381	1008	905
Sulfur	ppm	ASTM D5185m		3639	2667	2489
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	6	8
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	4	2	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.7	11.3	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	24.6	24
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.0	25.3	20.2
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	7.7	5.9
107.41\ Dov. 1					Cubmitted Du	la alaura IZaranar

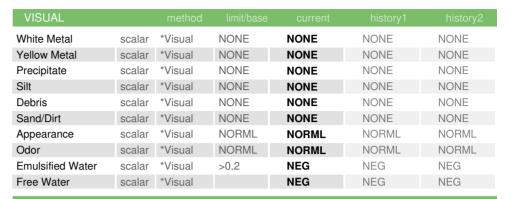


OIL ANALYSIS REPORT



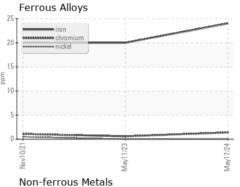
Base Number	-		
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5.0			
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₹3.0			
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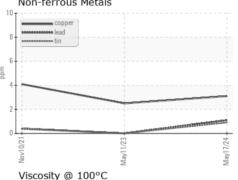


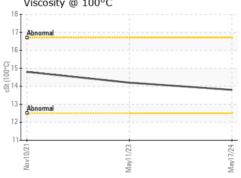


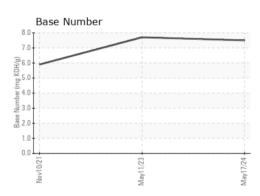
FLUID PROPER	7 I I E O	method		riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	13.8	14.2	14.8

GRAPHS













Laboratory Sample No.

Lab Number : 06195049

: SBP0007026 Unique Number : 11057172 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** : 31 May 2024 Diagnosed

: 31 May 2024 - Wes Davis

Sapp Bros. Fleet - Omaha Petroleum Location

9915 South 148th OMAHA, NE US 68138

Contact: Stephanie Kelly skelly@sappbros.net T: (800)211-8589

Certificate 12367

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)