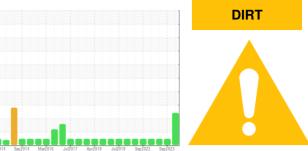


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

61K212B (S/N 1419930809)

Front Blower

{not provided} (8 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

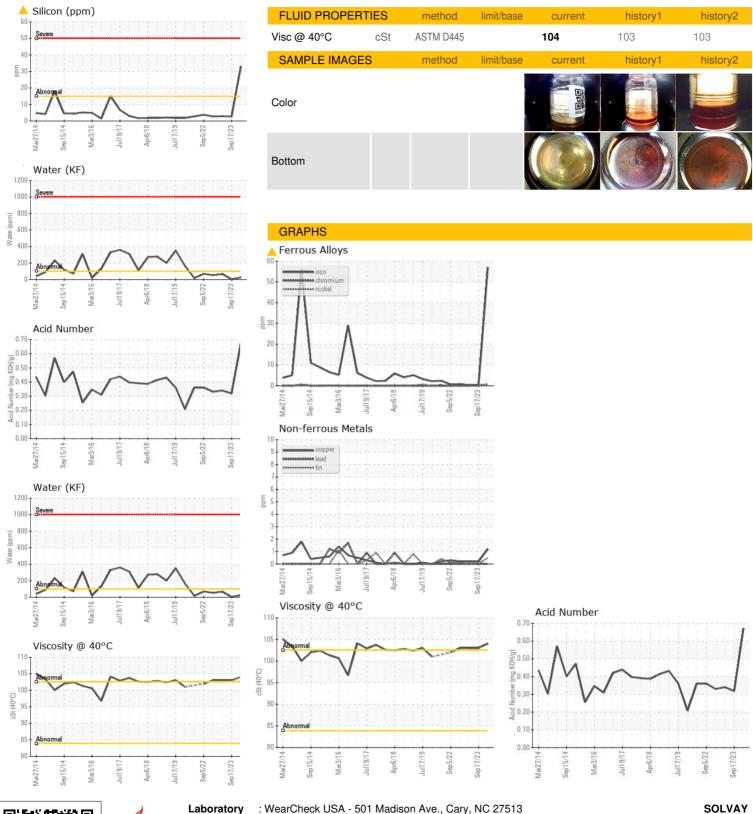
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2			ar2014 Sep2	014 Mar2016 Jul2017	Apr2018 Jul2019 Sep202	2 Sep2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info N/A N/A N/A N/A Oil Changel Client Info N/A N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A N/A WEARM Extraction Client Info N/A N/A N/A N/A N/A Mast Most Status College Status Current history1 history2 Iron ppm ASTM D5185m >20 <1 0 0 Nickel ppm ASTM D5185m >20 2 <1 0 0 Nickel ppm ASTM D5185m >20 2 <1 0 0 Aluminum ppm ASTM D5185m >20 2 <1 0 0 Copper ppm ASTM D5185m >20 1 <1 0 0 <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>RP0037815</th> <th>RP0037767</th> <th>RP0033370</th>	Sample Number		Client Info		RP0037815	RP0037767	RP0033370
Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info N/A N/A N/A N/A Coli Changel Client Info N/A N/A N/A N/A N/A ASTM D518sm Collent Info N/A N/A N/A N/A ASTM D518sm 20 ♣ 57 < 1	Sample Date		Client Info		21 Apr 2024	17 Sep 2023	22 May 2023
Oil Changed Sample Status Client Info N/A N/A N/A N/A N/A N/A Sample Status ABNORMAL NORMAL NORMAL	Machine Age	hrs	Client Info		•		0
Sample Status	Oil Age	hrs	Client Info		0	0	0
Iron	Oil Changed		Client Info		N/A	N/A	N/A
Iron	Sample Status				ABNORMAL	NORMAL	NORMAL
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>20	<u> </u>	<1	<1
Titanium	Chromium	ppm	ASTM D5185m	>20	<1	0	0
Silver ppm ASTM D5185m Q Q Q Q Action D5185m Q <t< th=""><th>Nickel</th><th>ppm</th><th>ASTM D5185m</th><th>>20</th><th><1</th><th>0</th><th>0</th></t<>	Nickel	ppm	ASTM D5185m	>20	<1	0	0
Aluminum ppm ASTM D5185m >20 2 <1	Titanium	ppm	ASTM D5185m		<1	0	0
Lead	Silver	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >20 1 <1	Aluminum		ASTM D5185m	>20	2	<1	0
Copper ppm ASTM D5185m >20 1 <1	Lead		ASTM D5185m	>20	0	0	0
Tin ppm ASTM D5185m >20 <1	Copper		ASTM D5185m	>20	1	<1	<1
Cadmium ppm ASTM D5185m <1	• •		ASTM D5185m	>20	<1	0	0
Cadmium ppm ASTM D5185m <1	Vanadium	• •	ASTM D5185m		<1	0	0
Boron							
Barium	ADDITIVES		method	limit/base	current	history1	history2
Barium	Boron	ppm	ASTM D5185m		0	0	0
Molybdenum ppm ASTM D5185m <1	Barium		ASTM D5185m			0	0
Manganese ppm ASTM D5185m <1	Molybdenum	ppm	ASTM D5185m		<1	0	0
Magnesium ppm ASTM D5185m 1 0 <1			ASTM D5185m			0	0
Calcium ppm ASTM D5185m 8 0 0 Phosphorus ppm ASTM D5185m 161 2 4 Zinc ppm ASTM D5185m 9 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 33 3 3 Sodium ppm ASTM D5185m 2 0 0 0 Potassium ppm ASTM D5185m 22 0 0 0 Potassium ppm ASTM D6304 0.003 0.001 0.006 Potassium ppm ASTM D6304 27 1.0 66.0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D8045 0.671 0.318 0.34 VISUAL method limit/base current history1 history2 </th <th>Magnesium</th> <th></th> <th>ASTM D5185m</th> <th></th> <th>1</th> <th>0</th> <th><1</th>	Magnesium		ASTM D5185m		1	0	<1
Zinc ppm ASTM D5185m 9 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 ▲ 33 3 Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 1 0 <1 Water % ASTM D6304 0.003 0.001 0.006 ppm Water ppm ASTM D6304 27 1.0 66.0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg K0H/g ASTM D8045 0.671 0.318 0.34 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate	-	ppm	ASTM D5185m		8	0	0
Zinc ppm ASTM D5185m 9 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 ▲ 33 3 3 Sodium ppm ASTM D5185m 2 0 0 0 Potassium ppm ASTM D5185m >20 1 0 <1 Water % ASTM D6304 0.003 0.001 0.006 ppm Water ppm ASTM D6304 27 1.0 66.0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg K0Hg ASTM D8045 0.671 0.318 0.34 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE	Phosphorus	ppm	ASTM D5185m		161	2	4
Silicon ppm ASTM D5185m >15 ▲ 33 3 3 Sodium ppm ASTM D5185m ≥2 0 0 0 Potassium ppm ASTM D6185m >20 1 0 <1		ppm	ASTM D5185m		9	0	0
Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 1 0 <1 Water % ASTM D6304 0.003 0.001 0.006 ppm Water ppm ASTM D6304 27 1.0 66.0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.671 0.318 0.34 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 1 0 <1 Water % ASTM D6304 0.003 0.001 0.006 ppm Water ppm ASTM D6304 27 1.0 66.0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.671 0.318 0.34 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML NORML	Silicon	ppm	ASTM D5185m	>15	△ 33	3	3
Potassium ppm ASTM D5185m >20 1 0 <1 Water % ASTM D6304 0.003 0.001 0.006 ppm Water ppm ASTM D6304 27 1.0 66.0 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.671 0.318 0.34 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Dedrick Scalar *Visual NORML NORML NORML NORML DOOR Scalar *Visual NORML NORML NORML DOOR NORML DOOR NEG	Sodium		ASTM D5185m		2	0	0
Water%ASTM D63040.0030.0010.006ppm WaterppmASTM D6304271.066.0FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.6710.3180.34VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMLNORML	Potassium		ASTM D5185m	>20	1	0	<1
FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.671 0.318 0.34 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML NEG NEG	Water	%	ASTM D6304		0.003	0.001	0.006
Acid Number (AN) mg KOH/g ASTM D8045 0.671 0.318 0.34 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Codor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML	ppm Water	ppm	ASTM D6304		27	1.0	66.0
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML	Acid Number (AN)	mg KOH/g	ASTM D8045		0.671	0.318	0.34
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*VisualNEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML NEG NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual NORML NORML NORML NEG NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*VisualNEGNEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*VisualNEGNEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual NEG NEG NEG	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual NEG NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
MICHEAL DO IAC COLDAT	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG n: MCHEAL ROJAS/1ESOLBAT	Emulsified Water	scalar	*Visual		NEG		
	Free Water	scalar	*Visual		NEG	n: MALEEAL RO	DJASNESOLBAT



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: RP0037815 Lab Number : 06156091 Unique Number : 10991514

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024 **Tested** : 24 Apr 2024

Diagnosed : 24 Apr 2024 - Don Baldridge Test Package : IND 2

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)

F: x: Contact/Location: MICHEAL ROJAS - SOLBAT

US 70805

1275 AIRLINE HWY

BATON ROUGE, LA

Contact: MICHEAL ROJAS

micheal.rojas@solvay.com T: (225)573-3664