

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



LIPPMAN 05062 DRIVE

Component

Gearbox

ESSO SPARTAN EP 220 (40 GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

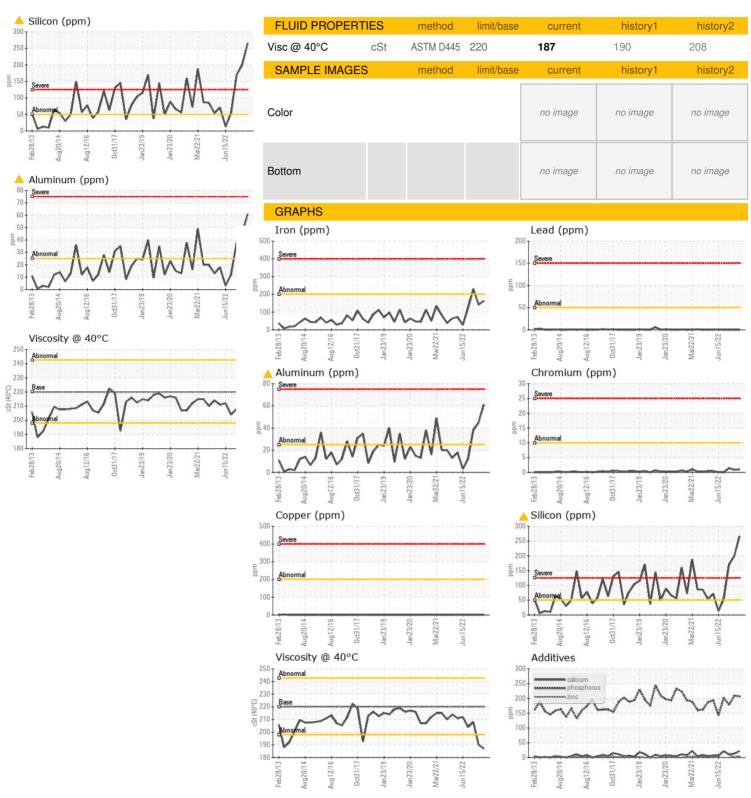
The condition of the oil is acceptable for the time in service.

		2013 Aug20	14 Aug2016 Oct2017	Jan2019 Jan2020 Mar2021 .	lun 2022	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0746928	WC0633901	WC0746932
Sample Date		Client Info		02 Dec 2023	23 Aug 2023	28 Dec 2022
Machine Age	hrs	Client Info		18402	18090	17264
Oil Age	hrs	Client Info		312	375	315
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	163	142	230
Chromium	ppm	ASTM D5185m	>10	1	<1	1
Nickel	ppm	ASTM D5185m	>10	<1	2	0
Titanium	ppm	ASTM D5185m		2	1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<u></u> 61	<u>45</u>	△ 38
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	.5	29	28	0
Barium	ppm	ASTM D5185m	.5	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
	ppm	ASTM D5185m	U	2	1	2
Manganese	ppm	ASTM D5185m	0	4	4	2
Magnesium Calcium	ppm	ASTM D5185m	1.7	22	13	11
	ppm	ASTM D5185m	250	207	209	178
Phosphorus	ppm			4		
Zinc	ppm		.3	-	1	9
Sulfur	ppm	ASTM D5185m		10298	11716	12642
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<u>^</u> 266	<u> </u>	△ 170
Sodium	ppm	ASTM D5185m		20	11	11
Potassium	ppm	ASTM D5185m	>20	31	23	17
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

Contact/Location: WAYNE HILL - WAKBAT



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Laboratory Sample No. Lab Number Unique Number Test Package : MOB 1

: WC0746928 : 06026811 : 10776602

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Dec 2023 : 08 Dec 2023 Diagnosed

: Don Baldridge Diagnostician

WAKE STONE CORPORATION - BATTLEBORO NASH CO. QUARRY, 7379 N. HALIFAX RD. BATTLEBORO, NC

US 27809

Contact: WAYNE HILL

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* - 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)

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