

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

POLAR SMIMID MASSAGER 1 (S/N CK3357U00145)

Gearbox

Gear bo

PETRO CANADA PURITY FG EP GEAR OIL 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

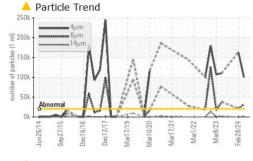
Fluid Condition

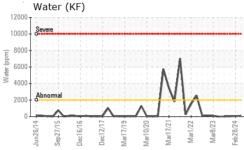
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

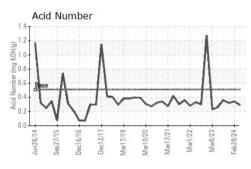
. 220 (GAL)		n2014 Sep2015	Dec2016 Dec2017 Mar20	19 Mar2020 Mar2021 Mar2022 Mar	2023 Feb2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011874	USP0007551	USP0003811
Sample Date		Client Info		14 May 2024	28 Feb 2024	26 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	44	56	55
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	0
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	0
Tin	ppm	ASTM D5185m	>25	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	1
Calcium	ppm	ASTM D5185m		4	0	5
Phosphorus	ppm	ASTM D5185m		129	124	138
Zinc	ppm	ASTM D5185m		0	4	0
Sulfur	ppm	ASTM D5185m		799	749	720
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	3	3
Sodium	ppm	ASTM D5185m		<1	1	1
Potassium	ppm	ASTM D5185m		1	<1	2
Water	%	ASTM D6304	>0.2	0.008	0.005	0.003
ppm Water	ppm	ASTM D6304	>2000	87	59	35
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	<u>▲</u> 162851	
Particles >6µm		ASTM D7647	>5000	<u> </u>	<u>^</u> 21651	
Particles >14µm		ASTM D7647	>640	<u>^</u> 896	201	
Particles >21µm		ASTM D7647	>160	140	35	
Particles >38µm		ASTM D7647	>40	2	1	
Particles >71μm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/22/17	<u>△</u> 25/22/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.51	0.29	0.34	0.32

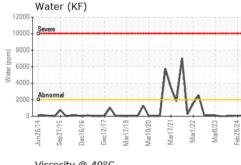


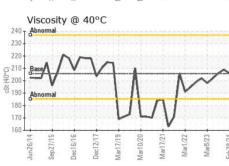
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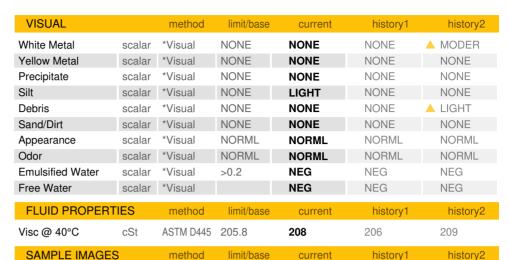




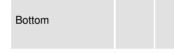




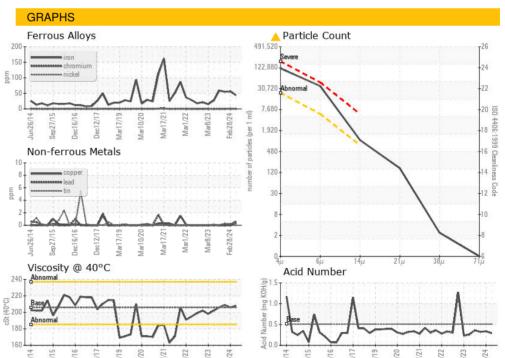




Color











Certificate 12367

Lab Number

Laboratory Sample No.

Test Package : IND 2

: USP0011874 : 06180186 Unique Number : 11031512

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 May 2024

Tested : 16 May 2024 Diagnosed

: 18 May 2024 - Jonathan Hester

SMITHFIELD FOODS-MIDDLESBORO MIDDLESBORO, KY LIS

Contact: SERVICE MANAGER

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)

Contact/Location: SERVICE MANAGER ? - SMIMID

T:

F:

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