

OIL ANALYSIS REPORT

Sample Rating Trend



PELLET MILL 1 (S/N 1303150001)

Gearbox Fluid

GEAR OIL ISO 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.

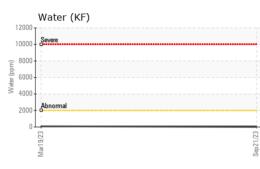
Fluid Condition

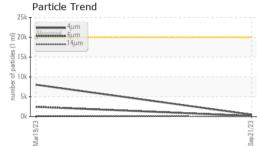
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

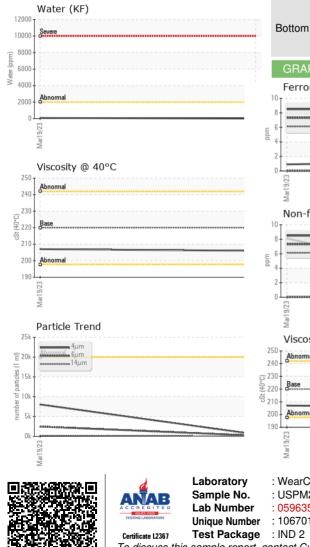
			Mar2023	Sep 2023		
SAMPLE INFORM	ΛΑΤΙΟΝ	method				history2
Sample Number		Client Info		USPM24986	USPM27646	
Sample Date		Client Info		21 Sep 2023	19 Mar 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	1	<1	
Chromium	ppm	ASTM D5185m	>15	0	0	
Nickel		ASTM D5185m	>15	0	0	
	ppm		>10	-		
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	0.7	0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	<1	
Lead	ppm	ASTM D5185m	>100	0	0	
Copper	ppm	ASTM D5185m	>200	2	8	
Tin	ppm	ASTM D5185m	>25	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0	<1	
Barium	ppm	ASTM D5185m	15	0	0	
Molybdenum	ppm	ASTM D5185m	15	0	<1	
Manganese	ppm	ASTM D5185m		<1	0	
Vagnesium	ppm	ASTM D5185m	50	0	2	
Calcium	ppm	ASTM D5185m	50	0	5	
Phosphorus	ppm	ASTM D5185m	350	592	499	
Zinc	ppm	ASTM D5185m	100	4	23	
Sulfur	ppm	ASTM D5185m	12500	635	911	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	<1	
Sodium	ppm	ASTM D5185m		<1	<1	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304	>0.2	0.002	0.008	
opm Water	ppm	ASTM D6304		19.4	82.7	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	482	8029	
Particles >6μm		ASTM D7647	>5000	162	2455	
Particles >14µm		ASTM D7647	>640	16	215	
Particles >21µm		ASTM D7647		5	41	
Particles >38µm		ASTM D7647		1	3	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	16/15/11	20/18/15	
FLUID DEGRADA		method	limit/base	current	history1	history2
						- Instoryz
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.63	0.35	



OIL ANALYSIS REPORT







NONE White Metal *Visual NONE NONE scalar Yellow Metal *Visual NONE NONE NONE scalar Precipitate scalar *Visua NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris *Visual NONE LIGHT scalar Sand/Dirt NONE NONE NONE scalar *Visual NORML Appearance scalar *Visual NORML NORML Odor *Visual NORML NORML scalar NORML **Emulsified Water** scalar *Visual >0.2 NEG NEG Free Water scalar *Visual NEG NEG FLUID PROPERTIES 206 Visc @ 40°C cSt ASTM D445 220 207.0 SAMPLE IMAGES Color no image no image GRAPHS Ferrous Alloys Particle Count 491,52 122,88 30.72 7.680 Sep21/23. 4406 per 1 1,920 :1999 Cle Non-ferrous Metals 480 120 14 31 en21 214 28/ Viscosity @ 40°C Acid Number (B/HOX B/HOX Abnormal 1.00 J 0.5 Abnormal Acid 0.00 Sep21/23 Sep21/23

Var1

: 28 Sep 2023

: 29 Sep 2023

: Doug Bogart

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USPM24986 : 05963592 : 10670143 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)

Received

Diagnosed

Diagnostician

CARGILL

US 42160

PARK CITY, KY

25054 LOUISVILLE ROAD

Contact: Service Manager